



CONCHO

## **Concho Resources, Inc.**

Lea County, NM (NAD 27 NME)

(Huckleberry State Com) Sec-27\_T-21-S\_R-33-E

Huckleberry State Com #505H

API# 30-025-45207

OWB

Design: AWB

## **Standard Survey Report**

22 March, 2019

 **INTREPID**



|           |                                              |                              |                                  |
|-----------|----------------------------------------------|------------------------------|----------------------------------|
| Company:  | Concho Resources, Inc.                       | Local Co-ordinate Reference: | Well Huckleberry State Com #505H |
| Project:  | Lea County, NM (NAD 27 NME)                  | TVD Reference:               | KB @ 3741.1usft (Latshaw 44)     |
| Site:     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | MD Reference:                | KB @ 3741.1usft (Latshaw 44)     |
| Well:     | Huckleberry State Com #505H                  | North Reference:             | Grid                             |
| Wellbore: | OWB                                          | Survey Calculation Method:   | Minimum Curvature                |
| Design:   | AWB                                          | Database:                    | EDM 5000.15 Single User Db       |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Lea County, NM (NAD 27 NME)          |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

|                       |                                              |                   |                   |
|-----------------------|----------------------------------------------|-------------------|-------------------|
| Site                  | (Huckleberry State Com) Sec-27_T-21-S_R-33-E |                   |                   |
| Site Position:        |                                              | Northing:         | 530,664.00 usft   |
| From:                 | Map                                          | Easting:          | 737,122.90 usft   |
| Position Uncertainty: | 0.0 usft                                     | Slot Radius:      | 13-3/16 "         |
|                       |                                              | Latitude:         | 32° 27' 23.619 N  |
|                       |                                              | Longitude:        | 103° 33' 52.502 W |
|                       |                                              | Grid Convergence: | 0.41 °            |

|                      |                             |                     |                   |
|----------------------|-----------------------------|---------------------|-------------------|
| Well                 | Huckleberry State Com #505H |                     |                   |
| Well Position        | +N/-S                       | 0.0 usft            | Northing:         |
|                      | +E/-W                       | 0.0 usft            | Easting:          |
| Position Uncertainty | 0.0 usft                    | Wellhead Elevation: | usft              |
|                      |                             | Latitude:           | 32° 27' 23.619 N  |
|                      |                             | Longitude:          | 103° 33' 52.502 W |
|                      |                             | Ground Level:       | 3,716.1 usft      |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | OWB        |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2015   | 01/17/19    | 6.80            | 60.26         | 47,911.11171572     |

|                   |                         |              |              |               |     |
|-------------------|-------------------------|--------------|--------------|---------------|-----|
| Design            | AWB                     |              |              |               |     |
| Audit Notes:      |                         |              |              |               |     |
| Version:          | 1.0                     | Phase:       | ACTUAL       | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |     |
|                   | 0.0                     | 0.0          | 0.0          | 2.00          |     |

|                |               |                            |                     |                                       |  |
|----------------|---------------|----------------------------|---------------------|---------------------------------------|--|
| Survey Program | Date 03/22/19 |                            |                     |                                       |  |
| From (usft)    | To (usft)     | Survey (Wellbore)          | Tool Name           | Description                           |  |
| 100.0          | 10,042.0      | SDI Gyro Svys (OWB)        | Standard Keeper 104 | Standard Wireline Keeper ver 1.0.4    |  |
| 10,158.0       | 21,125.0      | Intrepid MWD Crv/Lat (OWB) | MWD+IFR1+MS         | MWD + IFR1 + Multi-Station Correction |  |

|                       |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| 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) |  |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 100.0                 | 1.25            | 96.04       | 100.0                 | -0.1         | 1.1          | -0.1                    | 1.25                    | 1.25                   | 0.00                  |  |
| 125.0                 | 1.31            | 91.07       | 125.0                 | -0.1         | 1.6          | -0.1                    | 0.50                    | 0.24                   | -19.88                |  |
| 150.0                 | 1.22            | 92.18       | 150.0                 | -0.2         | 2.2          | -0.1                    | 0.37                    | -0.36                  | 4.44                  |  |
| 175.0                 | 1.15            | 87.59       | 175.0                 | -0.2         | 2.7          | -0.1                    | 0.47                    | -0.28                  | -18.36                |  |
| 200.0                 | 1.11            | 103.55      | 200.0                 | -0.2         | 3.2          | -0.1                    | 1.26                    | -0.16                  | 63.84                 |  |
| 225.0                 | 1.18            | 100.89      | 225.0                 | -0.3         | 3.7          | -0.2                    | 0.35                    | 0.28                   | -10.64                |  |
| 250.0                 | 1.31            | 103.20      | 250.0                 | -0.4         | 4.2          | -0.3                    | 0.56                    | 0.52                   | 9.24                  |  |
| 275.0                 | 1.34            | 103.49      | 275.0                 | -0.6         | 4.8          | -0.4                    | 0.12                    | 0.12                   | 1.16                  |  |
| 300.0                 | 1.38            | 99.93       | 299.9                 | -0.7         | 5.4          | -0.5                    | 0.37                    | 0.16                   | -14.24                |  |



**Intrepid**  
Survey Report



|                  |                                              |                                     |                                  |
|------------------|----------------------------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | Concho Resources, Inc.                       | <b>Local Co-ordinate Reference:</b> | Well Huckleberry State Com #505H |
| <b>Project:</b>  | Lea County, NM (NAD 27 NME)                  | <b>TVD Reference:</b>               | KB @ 3741.1usft (Latshaw 44)     |
| <b>Site:</b>     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | <b>MD Reference:</b>                | KB @ 3741.1usft (Latshaw 44)     |
| <b>Well:</b>     | Huckleberry State Com #505H                  | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWB                                          | <b>Database:</b>                    | EDM 5000.15 Single User Db       |

**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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 325.0                 | 1.40            | 101.85      | 324.9                 | -0.8         | 6.0          | -0.6                    | 0.20                    | 0.08                   | 7.68                  |
| 350.0                 | 1.37            | 99.58       | 349.9                 | -0.9         | 6.5          | -0.7                    | 0.25                    | -0.12                  | -9.08                 |
| 375.0                 | 1.19            | 91.82       | 374.9                 | -1.0         | 7.1          | -0.7                    | 1.00                    | -0.72                  | -31.04                |
| 400.0                 | 1.08            | 93.76       | 399.9                 | -1.0         | 7.6          | -0.7                    | 0.47                    | -0.44                  | 7.76                  |
| 425.0                 | 0.90            | 85.53       | 424.9                 | -1.0         | 8.0          | -0.7                    | 0.92                    | -0.72                  | -32.92                |
| 450.0                 | 0.80            | 88.40       | 449.9                 | -1.0         | 8.4          | -0.7                    | 0.43                    | -0.40                  | 11.48                 |
| 475.0                 | 0.76            | 85.48       | 474.9                 | -1.0         | 8.7          | -0.6                    | 0.23                    | -0.16                  | -11.68                |
| 500.0                 | 0.76            | 79.90       | 499.9                 | -0.9         | 9.1          | -0.6                    | 0.30                    | 0.00                   | -22.32                |
| 525.0                 | 0.89            | 86.03       | 524.9                 | -0.9         | 9.4          | -0.5                    | 0.63                    | 0.52                   | 24.52                 |
| 550.0                 | 0.76            | 84.89       | 549.9                 | -0.8         | 9.8          | -0.5                    | 0.52                    | -0.52                  | -4.56                 |
| 575.0                 | 0.77            | 79.62       | 574.9                 | -0.8         | 10.1         | -0.4                    | 0.28                    | 0.04                   | -21.08                |
| 600.0                 | 0.75            | 80.23       | 599.9                 | -0.7         | 10.4         | -0.4                    | 0.09                    | -0.08                  | 2.44                  |
| 625.0                 | 0.72            | 80.95       | 624.9                 | -0.7         | 10.8         | -0.3                    | 0.13                    | -0.12                  | 2.88                  |
| 650.0                 | 0.74            | 84.38       | 649.9                 | -0.6         | 11.1         | -0.3                    | 0.19                    | 0.08                   | 13.72                 |
| 675.0                 | 0.72            | 87.76       | 674.9                 | -0.6         | 11.4         | -0.2                    | 0.19                    | -0.08                  | 13.52                 |
| 700.0                 | 0.69            | 90.81       | 699.9                 | -0.6         | 11.7         | -0.2                    | 0.19                    | -0.12                  | 12.20                 |
| 725.0                 | 0.66            | 86.30       | 724.9                 | -0.6         | 12.0         | -0.2                    | 0.24                    | -0.12                  | -18.04                |
| 750.0                 | 0.74            | 86.46       | 749.9                 | -0.6         | 12.3         | -0.2                    | 0.32                    | 0.32                   | 0.64                  |
| 775.0                 | 0.74            | 82.78       | 774.9                 | -0.6         | 12.6         | -0.1                    | 0.19                    | 0.00                   | -14.72                |
| 800.0                 | 0.79            | 87.69       | 799.9                 | -0.5         | 12.9         | -0.1                    | 0.33                    | 0.20                   | 19.64                 |
| 825.0                 | 0.79            | 82.31       | 824.9                 | -0.5         | 13.3         | 0.0                     | 0.30                    | 0.00                   | -21.52                |
| 850.0                 | 0.74            | 86.69       | 849.9                 | -0.5         | 13.6         | 0.0                     | 0.31                    | -0.20                  | 17.52                 |
| 875.0                 | 0.79            | 96.39       | 874.9                 | -0.5         | 14.0         | 0.0                     | 0.55                    | 0.20                   | 38.80                 |
| 900.0                 | 0.89            | 89.87       | 899.9                 | -0.5         | 14.3         | 0.0                     | 0.55                    | 0.40                   | -26.08                |
| 925.0                 | 0.88            | 91.12       | 924.9                 | -0.5         | 14.7         | 0.0                     | 0.09                    | -0.04                  | 5.00                  |
| 950.0                 | 0.94            | 92.07       | 949.9                 | -0.5         | 15.1         | 0.0                     | 0.25                    | 0.24                   | 3.80                  |
| 975.0                 | 0.97            | 96.67       | 974.9                 | -0.5         | 15.5         | 0.0                     | 0.33                    | 0.12                   | 18.40                 |
| 1,000.0               | 1.07            | 98.35       | 999.9                 | -0.6         | 16.0         | 0.0                     | 0.42                    | 0.40                   | 6.72                  |
| 1,025.0               | 0.96            | 105.63      | 1,024.9               | -0.7         | 16.4         | -0.1                    | 0.68                    | -0.44                  | 29.12                 |
| 1,050.0               | 1.03            | 103.77      | 1,049.9               | -0.8         | 16.8         | -0.2                    | 0.31                    | 0.28                   | -7.44                 |
| 1,075.0               | 1.05            | 99.55       | 1,074.8               | -0.9         | 17.3         | -0.3                    | 0.32                    | 0.08                   | -16.88                |
| 1,100.0               | 1.08            | 102.12      | 1,099.8               | -1.0         | 17.7         | -0.4                    | 0.23                    | 0.12                   | 10.28                 |
| 1,125.0               | 1.06            | 98.48       | 1,124.8               | -1.1         | 18.2         | -0.4                    | 0.28                    | -0.08                  | -14.56                |
| 1,150.0               | 1.21            | 94.22       | 1,149.8               | -1.1         | 18.7         | -0.5                    | 0.69                    | 0.60                   | -17.04                |
| 1,175.0               | 1.29            | 91.20       | 1,174.8               | -1.1         | 19.2         | -0.5                    | 0.41                    | 0.32                   | -12.08                |
| 1,200.0               | 1.40            | 92.11       | 1,199.8               | -1.2         | 19.8         | -0.5                    | 0.45                    | 0.44                   | 3.64                  |
| 1,225.0               | 1.43            | 91.46       | 1,224.8               | -1.2         | 20.4         | -0.5                    | 0.14                    | 0.12                   | -2.60                 |
| 1,250.0               | 1.55            | 91.52       | 1,249.8               | -1.2         | 21.1         | -0.5                    | 0.48                    | 0.48                   | 0.24                  |
| 1,275.0               | 1.46            | 91.43       | 1,274.8               | -1.2         | 21.7         | -0.5                    | 0.36                    | -0.36                  | -0.36                 |
| 1,300.0               | 1.49            | 93.80       | 1,299.8               | -1.2         | 22.4         | -0.5                    | 0.27                    | 0.12                   | 9.48                  |
| 1,325.0               | 1.55            | 97.08       | 1,324.8               | -1.3         | 23.0         | -0.5                    | 0.42                    | 0.24                   | 13.12                 |
| 1,350.0               | 1.57            | 97.56       | 1,349.8               | -1.4         | 23.7         | -0.6                    | 0.10                    | 0.08                   | 1.92                  |
| 1,375.0               | 1.55            | 95.76       | 1,374.8               | -1.5         | 24.4         | -0.6                    | 0.21                    | -0.08                  | -7.20                 |



**Intrepid**  
Survey Report



|                  |                                              |                                     |                                  |
|------------------|----------------------------------------------|-------------------------------------|----------------------------------|
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| <b>Project:</b>  | Lea County, NM (NAD 27 NME)                  | <b>TVD Reference:</b>               | KB @ 3741.1usft (Latshaw 44)     |
| <b>Site:</b>     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | <b>MD Reference:</b>                | KB @ 3741.1usft (Latshaw 44)     |
| <b>Well:</b>     | Huckleberry State Com #505H                  | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWB                                          | <b>Database:</b>                    | EDM 5000.15 Single User Db       |

**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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 1,400.0               | 1.58            | 96.25       | 1,399.8               | -1.5         | 25.1         | -0.7                    | 0.13                    | 0.12                   | 1.96                  |
| 1,425.0               | 1.57            | 97.49       | 1,424.7               | -1.6         | 25.7         | -0.7                    | 0.14                    | -0.04                  | 4.96                  |
| 1,450.0               | 1.59            | 96.72       | 1,449.7               | -1.7         | 26.4         | -0.8                    | 0.12                    | 0.08                   | -3.08                 |
| 1,475.0               | 1.64            | 94.44       | 1,474.7               | -1.8         | 27.1         | -0.8                    | 0.33                    | 0.20                   | -9.12                 |
| 1,500.0               | 1.69            | 91.76       | 1,499.7               | -1.8         | 27.8         | -0.9                    | 0.37                    | 0.20                   | -10.72                |
| 1,525.0               | 1.70            | 88.71       | 1,524.7               | -1.8         | 28.6         | -0.8                    | 0.36                    | 0.04                   | -12.20                |
| 1,550.0               | 1.64            | 88.06       | 1,549.7               | -1.8         | 29.3         | -0.8                    | 0.25                    | -0.24                  | -2.60                 |
| 1,575.0               | 1.65            | 89.26       | 1,574.7               | -1.8         | 30.0         | -0.7                    | 0.14                    | 0.04                   | 4.80                  |
| 1,600.0               | 1.70            | 85.09       | 1,599.7               | -1.8         | 30.8         | -0.7                    | 0.53                    | 0.20                   | -16.68                |
| 1,625.0               | 1.75            | 80.99       | 1,624.7               | -1.7         | 31.5         | -0.6                    | 0.53                    | 0.20                   | -16.40                |
| 1,650.0               | 1.80            | 80.10       | 1,649.6               | -1.5         | 32.3         | -0.4                    | 0.23                    | 0.20                   | -3.56                 |
| 1,675.0               | 1.75            | 82.98       | 1,674.6               | -1.4         | 33.0         | -0.3                    | 0.41                    | -0.20                  | 11.52                 |
| 1,700.0               | 1.78            | 83.43       | 1,699.6               | -1.3         | 33.8         | -0.1                    | 0.13                    | 0.12                   | 1.80                  |
| 1,725.0               | 1.77            | 82.55       | 1,724.6               | -1.2         | 34.6         | 0.0                     | 0.12                    | -0.04                  | -3.52                 |
| 1,750.0               | 1.74            | 83.49       | 1,749.6               | -1.1         | 35.3         | 0.1                     | 0.17                    | -0.12                  | 3.76                  |
| 1,775.0               | 1.60            | 85.43       | 1,774.6               | -1.1         | 36.1         | 0.2                     | 0.60                    | -0.56                  | 7.76                  |
| 1,800.0               | 1.59            | 79.35       | 1,799.6               | -1.0         | 36.7         | 0.3                     | 0.68                    | -0.04                  | -24.32                |
| 1,801.4               | 1.59            | 79.02       | 1,801.0               | -1.0         | 36.8         | 0.3                     | 0.68                    | -0.19                  | -23.55                |
| <b>Rustler</b>        |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,825.0               | 1.55            | 73.31       | 1,824.6               | -0.8         | 37.4         | 0.5                     | 0.68                    | -0.16                  | -24.20                |
| 1,850.0               | 1.70            | 70.26       | 1,849.6               | -0.6         | 38.1         | 0.7                     | 0.69                    | 0.60                   | -12.20                |
| 1,875.0               | 1.81            | 67.48       | 1,874.5               | -0.3         | 38.8         | 1.0                     | 0.56                    | 0.44                   | -11.12                |
| 1,895.5               | 1.98            | 67.04       | 1,895.0               | -0.1         | 39.4         | 1.3                     | 0.84                    | 0.84                   | -2.16                 |
| <b>TOS</b>            |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,900.0               | 2.02            | 66.95       | 1,899.5               | 0.0          | 39.6         | 1.4                     | 0.84                    | 0.84                   | -1.94                 |
| 1,925.0               | 2.14            | 65.20       | 1,924.5               | 0.4          | 40.4         | 1.8                     | 0.54                    | 0.48                   | -7.00                 |
| 1,950.0               | 2.34            | 62.72       | 1,949.5               | 0.8          | 41.3         | 2.2                     | 0.89                    | 0.80                   | -9.92                 |
| 1,975.0               | 2.40            | 65.52       | 1,974.5               | 1.3          | 42.2         | 2.7                     | 0.52                    | 0.24                   | 11.20                 |
| 2,000.0               | 2.57            | 67.14       | 1,999.5               | 1.7          | 43.2         | 3.2                     | 0.74                    | 0.68                   | 6.48                  |
| 2,025.0               | 2.82            | 72.35       | 2,024.4               | 2.1          | 44.3         | 3.6                     | 1.40                    | 1.00                   | 20.84                 |
| 2,050.0               | 3.17            | 85.95       | 2,049.4               | 2.3          | 45.6         | 3.9                     | 3.16                    | 1.40                   | 54.40                 |
| 2,075.0               | 3.72            | 93.78       | 2,074.3               | 2.3          | 47.1         | 4.0                     | 2.89                    | 2.20                   | 31.32                 |
| 2,100.0               | 4.17            | 97.14       | 2,099.3               | 2.2          | 48.8         | 3.9                     | 2.02                    | 1.80                   | 13.44                 |
| 2,125.0               | 4.65            | 100.60      | 2,124.2               | 1.9          | 50.7         | 3.6                     | 2.19                    | 1.92                   | 13.84                 |
| 2,150.0               | 4.95            | 102.80      | 2,149.1               | 1.4          | 52.7         | 3.3                     | 1.41                    | 1.20                   | 8.80                  |
| 2,175.0               | 5.29            | 104.68      | 2,174.0               | 0.9          | 54.9         | 2.8                     | 1.52                    | 1.36                   | 7.52                  |
| 2,200.0               | 5.63            | 106.23      | 2,198.9               | 0.3          | 57.2         | 2.3                     | 1.48                    | 1.36                   | 6.20                  |
| 2,225.0               | 5.67            | 108.32      | 2,223.8               | -0.5         | 59.5         | 1.6                     | 0.84                    | 0.16                   | 8.36                  |
| 2,250.0               | 5.93            | 115.29      | 2,248.7               | -1.4         | 61.9         | 0.8                     | 3.00                    | 1.04                   | 27.88                 |
| 2,275.0               | 5.81            | 122.01      | 2,273.5               | -2.6         | 64.1         | -0.4                    | 2.79                    | -0.48                  | 26.88                 |
| 2,300.0               | 5.73            | 126.97      | 2,298.4               | -4.0         | 66.2         | -1.7                    | 2.02                    | -0.32                  | 19.84                 |
| 2,325.0               | 5.62            | 131.53      | 2,323.3               | -5.6         | 68.1         | -3.2                    | 1.86                    | -0.44                  | 18.24                 |
| 2,350.0               | 5.06            | 134.26      | 2,348.2               | -7.2         | 69.8         | -4.8                    | 2.46                    | -2.24                  | 10.92                 |
| 2,375.0               | 4.36            | 141.12      | 2,373.1               | -8.7         | 71.2         | -6.2                    | 3.59                    | -2.80                  | 27.44                 |



**Intrepid**  
Survey Report



|                  |                                              |                                     |                                  |
|------------------|----------------------------------------------|-------------------------------------|----------------------------------|
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| <b>Site:</b>     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | <b>MD Reference:</b>                | KB @ 3741.1usft (Latshaw 44)     |
| <b>Well:</b>     | Huckleberry State Com #505H                  | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWB                                          | <b>Database:</b>                    | EDM 5000.15 Single User Db       |

**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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 2,400.0               | 4.02            | 147.28      | 2,398.0               | -10.2        | 72.3         | -7.7                    | 2.25                    | -1.36                  | 24.64                 |
| 2,425.0               | 4.17            | 150.65      | 2,423.0               | -11.7        | 73.2         | -9.2                    | 1.13                    | 0.60                   | 13.48                 |
| 2,450.0               | 4.15            | 151.50      | 2,447.9               | -13.3        | 74.1         | -10.7                   | 0.26                    | -0.08                  | 3.40                  |
| 2,475.0               | 4.26            | 151.39      | 2,472.8               | -14.9        | 74.9         | -12.3                   | 0.44                    | 0.44                   | -0.44                 |
| 2,500.0               | 4.47            | 154.83      | 2,497.8               | -16.6        | 75.8         | -14.0                   | 1.34                    | 0.84                   | 13.76                 |
| 2,525.0               | 4.67            | 156.15      | 2,522.7               | -18.4        | 76.6         | -15.7                   | 0.90                    | 0.80                   | 5.28                  |
| 2,550.0               | 4.86            | 155.25      | 2,547.6               | -20.3        | 77.5         | -17.6                   | 0.82                    | 0.76                   | -3.60                 |
| 2,575.0               | 4.93            | 154.39      | 2,572.5               | -22.2        | 78.4         | -19.5                   | 0.41                    | 0.28                   | -3.44                 |
| 2,600.0               | 5.04            | 152.95      | 2,597.4               | -24.2        | 79.3         | -21.4                   | 0.67                    | 0.44                   | -5.76                 |
| 2,625.0               | 5.04            | 153.70      | 2,622.3               | -26.1        | 80.3         | -23.3                   | 0.26                    | 0.00                   | 3.00                  |
| 2,650.0               | 4.50            | 148.11      | 2,647.2               | -28.0        | 81.3         | -25.1                   | 2.85                    | -2.16                  | -22.36                |
| 2,675.0               | 4.07            | 143.27      | 2,672.1               | -29.5        | 82.4         | -26.6                   | 2.25                    | -1.72                  | -19.36                |
| 2,700.0               | 4.04            | 140.60      | 2,697.1               | -30.9        | 83.5         | -28.0                   | 0.76                    | -0.12                  | -10.68                |
| 2,725.0               | 4.01            | 139.78      | 2,722.0               | -32.2        | 84.6         | -29.3                   | 0.26                    | -0.12                  | -3.28                 |
| 2,750.0               | 4.10            | 139.26      | 2,747.0               | -33.6        | 85.7         | -30.6                   | 0.39                    | 0.36                   | -2.08                 |
| 2,775.0               | 4.11            | 138.44      | 2,771.9               | -34.9        | 86.9         | -31.9                   | 0.24                    | 0.04                   | -3.28                 |
| 2,800.0               | 4.24            | 135.77      | 2,796.8               | -36.3        | 88.2         | -33.2                   | 0.94                    | 0.52                   | -10.68                |
| 2,825.0               | 4.42            | 133.32      | 2,821.8               | -37.6        | 89.5         | -34.5                   | 1.03                    | 0.72                   | -9.80                 |
| 2,850.0               | 4.69            | 129.58      | 2,846.7               | -38.9        | 91.0         | -35.7                   | 1.61                    | 1.08                   | -14.96                |
| 2,875.0               | 4.71            | 129.10      | 2,871.6               | -40.2        | 92.6         | -37.0                   | 0.18                    | 0.08                   | -1.92                 |
| 2,900.0               | 4.50            | 125.34      | 2,896.5               | -41.4        | 94.2         | -38.1                   | 1.47                    | -0.84                  | -15.04                |
| 2,925.0               | 4.04            | 119.95      | 2,921.4               | -42.4        | 95.7         | -39.1                   | 2.44                    | -1.84                  | -21.56                |
| 2,950.0               | 3.51            | 115.02      | 2,946.4               | -43.2        | 97.2         | -39.8                   | 2.48                    | -2.12                  | -19.72                |
| 2,975.0               | 3.55            | 104.54      | 2,971.3               | -43.7        | 98.6         | -40.2                   | 2.58                    | 0.16                   | -41.92                |
| 3,000.0               | 3.68            | 103.00      | 2,996.3               | -44.1        | 100.2        | -40.6                   | 0.65                    | 0.52                   | -6.16                 |
| 3,025.0               | 3.80            | 103.59      | 3,021.2               | -44.5        | 101.8        | -40.9                   | 0.50                    | 0.48                   | 2.36                  |
| 3,050.0               | 3.89            | 101.00      | 3,046.2               | -44.8        | 103.4        | -41.2                   | 0.78                    | 0.36                   | -10.36                |
| 3,075.0               | 4.31            | 101.47      | 3,071.1               | -45.2        | 105.1        | -41.5                   | 1.69                    | 1.68                   | 1.88                  |
| 3,100.0               | 4.68            | 101.16      | 3,096.0               | -45.5        | 107.1        | -41.8                   | 1.48                    | 1.48                   | -1.24                 |
| 3,125.0               | 5.18            | 101.30      | 3,121.0               | -46.0        | 109.2        | -42.1                   | 2.00                    | 2.00                   | 0.56                  |
| 3,150.0               | 5.34            | 101.46      | 3,145.8               | -46.4        | 111.4        | -42.5                   | 0.64                    | 0.64                   | 0.64                  |
| 3,175.0               | 5.17            | 102.25      | 3,170.7               | -46.9        | 113.7        | -42.9                   | 0.74                    | -0.68                  | 3.16                  |
| 3,200.0               | 4.79            | 104.98      | 3,195.6               | -47.4        | 115.8        | -43.3                   | 1.79                    | -1.52                  | 10.92                 |
| 3,225.0               | 4.40            | 107.68      | 3,220.6               | -48.0        | 117.7        | -43.8                   | 1.78                    | -1.56                  | 10.80                 |
| 3,250.0               | 4.23            | 108.82      | 3,245.5               | -48.5        | 119.5        | -44.4                   | 0.76                    | -0.68                  | 4.56                  |
| 3,275.0               | 3.71            | 111.27      | 3,270.4               | -49.1        | 121.1        | -44.9                   | 2.19                    | -2.08                  | 9.80                  |
| 3,300.0               | 3.13            | 115.10      | 3,295.4               | -49.7        | 122.5        | -45.4                   | 2.49                    | -2.32                  | 15.32                 |
| 3,325.0               | 2.69            | 121.44      | 3,320.4               | -50.3        | 123.6        | -46.0                   | 2.18                    | -1.76                  | 25.36                 |
| 3,350.0               | 2.65            | 122.71      | 3,345.3               | -50.9        | 124.6        | -46.6                   | 0.29                    | -0.16                  | 5.08                  |
| 3,375.0               | 2.56            | 125.28      | 3,370.3               | -51.6        | 125.5        | -47.2                   | 0.59                    | -0.36                  | 10.28                 |
| 3,400.0               | 2.72            | 124.33      | 3,395.3               | -52.2        | 126.5        | -47.8                   | 0.66                    | 0.64                   | -3.80                 |
| 3,425.0               | 2.90            | 126.56      | 3,420.3               | -52.9        | 127.5        | -48.5                   | 0.84                    | 0.72                   | 8.92                  |
| 3,450.0               | 2.83            | 119.31      | 3,445.2               | -53.6        | 128.5        | -49.1                   | 1.48                    | -0.28                  | -29.00                |

|                  |                                              |                                     |                                  |
|------------------|----------------------------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | Concho Resources, Inc.                       | <b>Local Co-ordinate Reference:</b> | Well Huckleberry State Com #505H |
| <b>Project:</b>  | Lea County, NM (NAD 27 NME)                  | <b>TVD Reference:</b>               | KB @ 3741.1usft (Latshaw 44)     |
| <b>Site:</b>     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | <b>MD Reference:</b>                | KB @ 3741.1usft (Latshaw 44)     |
| <b>Well:</b>     | Huckleberry State Com #505H                  | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWB                                          | <b>Database:</b>                    | EDM 5000.15 Single User Db       |

**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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 3,475.0               | 2.86            | 120.81      | 3,470.2               | -54.2        | 129.6        | -49.7                   | 0.32                    | 0.12                   | 6.00                  |
| 3,500.0               | 2.93            | 122.30      | 3,495.2               | -54.9        | 130.7        | -50.3                   | 0.41                    | 0.28                   | 5.96                  |
| 3,525.0               | 3.00            | 123.12      | 3,520.1               | -55.6        | 131.8        | -51.0                   | 0.33                    | 0.28                   | 3.28                  |
| 3,539.9               | 3.08            | 123.96      | 3,535.0               | -56.0        | 132.4        | -51.4                   | 0.63                    | 0.56                   | 5.62                  |
| <b>BOS / Tansill</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,550.0               | 3.14            | 124.50      | 3,545.1               | -56.3        | 132.9        | -51.7                   | 0.63                    | 0.56                   | 5.37                  |
| 3,575.0               | 3.14            | 126.56      | 3,570.1               | -57.1        | 134.0        | -52.4                   | 0.45                    | 0.00                   | 8.24                  |
| 3,600.0               | 3.35            | 128.59      | 3,595.0               | -58.0        | 135.1        | -53.3                   | 0.96                    | 0.84                   | 8.12                  |
| 3,625.0               | 3.38            | 128.44      | 3,620.0               | -58.9        | 136.2        | -54.1                   | 0.13                    | 0.12                   | -0.60                 |
| 3,650.0               | 3.39            | 130.00      | 3,644.9               | -59.8        | 137.4        | -55.0                   | 0.37                    | 0.04                   | 6.24                  |
| 3,675.0               | 3.34            | 131.04      | 3,669.9               | -60.8        | 138.5        | -55.9                   | 0.32                    | -0.20                  | 4.16                  |
| 3,700.0               | 3.27            | 131.48      | 3,694.8               | -61.8        | 139.6        | -56.9                   | 0.30                    | -0.28                  | 1.76                  |
| 3,725.0               | 3.29            | 131.82      | 3,719.8               | -62.7        | 140.7        | -57.8                   | 0.11                    | 0.08                   | 1.36                  |
| 3,735.2               | 3.32            | 132.11      | 3,730.0               | -63.1        | 141.1        | -58.1                   | 0.32                    | 0.28                   | 2.88                  |
| <b>Yates</b>          |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,750.0               | 3.36            | 132.53      | 3,744.8               | -63.7        | 141.7        | -58.7                   | 0.32                    | 0.28                   | 2.82                  |
| 3,775.0               | 3.35            | 134.39      | 3,769.7               | -64.7        | 142.8        | -59.7                   | 0.44                    | -0.04                  | 7.44                  |
| 3,800.0               | 3.48            | 134.60      | 3,794.7               | -65.7        | 143.9        | -60.7                   | 0.52                    | 0.52                   | 0.84                  |
| 3,803.3               | 3.47            | 134.63      | 3,798.0               | -65.9        | 144.0        | -60.8                   | 0.21                    | -0.20                  | 1.02                  |
| <b>Seven Rivers</b>   |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,825.0               | 3.43            | 134.86      | 3,819.6               | -66.8        | 144.9        | -61.7                   | 0.21                    | -0.20                  | 1.04                  |
| 3,850.0               | 3.83            | 135.81      | 3,844.6               | -67.9        | 146.0        | -62.8                   | 1.62                    | 1.60                   | 3.80                  |
| 3,875.0               | 4.01            | 137.60      | 3,869.5               | -69.2        | 147.2        | -64.0                   | 0.87                    | 0.72                   | 7.16                  |
| 3,900.0               | 4.14            | 139.75      | 3,894.5               | -70.5        | 148.4        | -65.3                   | 0.80                    | 0.52                   | 8.60                  |
| 3,925.0               | 4.38            | 139.88      | 3,919.4               | -71.9        | 149.6        | -66.7                   | 0.96                    | 0.96                   | 0.52                  |
| 3,950.0               | 4.49            | 141.83      | 3,944.3               | -73.4        | 150.8        | -68.1                   | 0.75                    | 0.44                   | 7.80                  |
| 3,961.7               | 4.64            | 142.90      | 3,956.0               | -74.1        | 151.4        | -68.8                   | 1.47                    | 1.27                   | 9.12                  |
| <b>Capitan Reef</b>   |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,975.0               | 4.81            | 144.03      | 3,969.2               | -75.0        | 152.0        | -69.7                   | 1.47                    | 1.29                   | 8.52                  |
| 4,000.0               | 5.27            | 149.35      | 3,994.1               | -76.9        | 153.2        | -71.5                   | 2.62                    | 1.84                   | 21.28                 |
| 4,025.0               | 4.85            | 143.49      | 4,019.0               | -78.7        | 154.4        | -73.3                   | 2.66                    | -1.68                  | -23.44                |
| 4,050.0               | 4.95            | 139.66      | 4,043.9               | -80.4        | 155.8        | -74.9                   | 1.37                    | 0.40                   | -15.32                |
| 4,075.0               | 4.91            | 138.68      | 4,068.8               | -82.0        | 157.2        | -76.5                   | 0.37                    | -0.16                  | -3.92                 |
| 4,100.0               | 4.99            | 136.85      | 4,093.8               | -83.6        | 158.6        | -78.0                   | 0.71                    | 0.32                   | -7.32                 |
| 4,125.0               | 5.13            | 136.88      | 4,118.7               | -85.2        | 160.1        | -79.6                   | 0.56                    | 0.56                   | 0.12                  |
| 4,150.0               | 5.09            | 135.13      | 4,143.6               | -86.8        | 161.7        | -81.1                   | 0.64                    | -0.16                  | -7.00                 |
| 4,175.0               | 5.11            | 135.62      | 4,168.5               | -88.4        | 163.2        | -82.6                   | 0.19                    | 0.08                   | 1.96                  |
| 4,200.0               | 4.99            | 133.98      | 4,193.4               | -89.9        | 164.8        | -84.1                   | 0.75                    | -0.48                  | -6.56                 |
| 4,225.0               | 4.90            | 131.99      | 4,218.3               | -91.4        | 166.4        | -85.6                   | 0.77                    | -0.36                  | -7.96                 |
| 4,250.0               | 4.50            | 125.03      | 4,243.2               | -92.7        | 168.0        | -86.8                   | 2.78                    | -1.60                  | -27.84                |
| 4,275.0               | 4.47            | 117.55      | 4,268.1               | -93.7        | 169.6        | -87.7                   | 2.34                    | -0.12                  | -29.92                |
| 4,300.0               | 4.29            | 115.67      | 4,293.0               | -94.6        | 171.3        | -88.5                   | 0.92                    | -0.72                  | -7.52                 |
| 4,325.0               | 4.42            | 114.39      | 4,318.0               | -95.4        | 173.1        | -89.3                   | 0.65                    | 0.52                   | -5.12                 |
| 4,350.0               | 4.29            | 108.76      | 4,342.9               | -96.1        | 174.8        | -89.9                   | 1.79                    | -0.52                  | -22.52                |



|           |                                              |                              |                                  |
|-----------|----------------------------------------------|------------------------------|----------------------------------|
| Company:  | Concho Resources, Inc.                       | Local Co-ordinate Reference: | Well Huckleberry State Com #505H |
| Project:  | Lea County, NM (NAD 27 NME)                  | TVD Reference:               | KB @ 3741.1usft (Latshaw 44)     |
| Site:     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | MD Reference:                | KB @ 3741.1usft (Latshaw 44)     |
| Well:     | Huckleberry State Com #505H                  | North Reference:             | Grid                             |
| Wellbore: | OWB                                          | Survey Calculation Method:   | Minimum Curvature                |
| Design:   | AWB                                          | Database:                    | EDM 5000.15 Single User Db       |

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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,375.0               | 4.34            | 99.56       | 4,367.8               | -96.5        | 176.6        | -90.3                   | 2.77                    | 0.20                   | -36.80                |
| 4,400.0               | 4.45            | 97.84       | 4,392.7               | -96.8        | 178.5        | -90.5                   | 0.69                    | 0.44                   | -6.88                 |
| 4,425.0               | 4.63            | 96.78       | 4,417.7               | -97.1        | 180.5        | -90.7                   | 0.79                    | 0.72                   | -4.24                 |
| 4,450.0               | 4.92            | 94.81       | 4,442.6               | -97.3        | 182.6        | -90.8                   | 1.33                    | 1.16                   | -7.88                 |
| 4,475.0               | 5.06            | 94.09       | 4,467.5               | -97.4        | 184.7        | -90.9                   | 0.61                    | 0.56                   | -2.88                 |
| 4,500.0               | 5.06            | 94.06       | 4,492.4               | -97.6        | 186.9        | -91.0                   | 0.01                    | 0.00                   | -0.12                 |
| 4,525.0               | 4.68            | 94.23       | 4,517.3               | -97.7        | 189.1        | -91.1                   | 1.52                    | -1.52                  | 0.68                  |
| 4,550.0               | 3.92            | 93.85       | 4,542.2               | -97.9        | 190.9        | -91.2                   | 3.04                    | -3.04                  | -1.52                 |
| 4,575.0               | 3.67            | 92.90       | 4,567.2               | -98.0        | 192.6        | -91.2                   | 1.03                    | -1.00                  | -3.80                 |
| 4,600.0               | 3.37            | 91.05       | 4,592.1               | -98.0        | 194.1        | -91.2                   | 1.28                    | -1.20                  | -7.40                 |
| 4,625.0               | 2.94            | 70.54       | 4,617.1               | -97.8        | 195.4        | -91.0                   | 4.80                    | -1.72                  | -82.04                |
| 4,650.0               | 3.04            | 58.10       | 4,642.1               | -97.3        | 196.6        | -90.4                   | 2.62                    | 0.40                   | -49.76                |
| 4,675.0               | 3.17            | 49.05       | 4,667.0               | -96.5        | 197.7        | -89.5                   | 2.03                    | 0.52                   | -36.20                |
| 4,700.0               | 3.42            | 45.05       | 4,692.0               | -95.5        | 198.8        | -88.5                   | 1.36                    | 1.00                   | -16.00                |
| 4,725.0               | 3.90            | 40.82       | 4,716.9               | -94.3        | 199.8        | -87.3                   | 2.20                    | 1.92                   | -16.92                |
| 4,750.0               | 3.97            | 40.60       | 4,741.9               | -93.0        | 201.0        | -86.0                   | 0.29                    | 0.28                   | -0.88                 |
| 4,775.0               | 4.45            | 38.61       | 4,766.8               | -91.6        | 202.1        | -84.5                   | 2.01                    | 1.92                   | -7.96                 |
| 4,800.0               | 4.76            | 37.85       | 4,791.7               | -90.0        | 203.4        | -82.9                   | 1.26                    | 1.24                   | -3.04                 |
| 4,825.0               | 5.09            | 37.13       | 4,816.6               | -88.3        | 204.7        | -81.1                   | 1.34                    | 1.32                   | -2.88                 |
| 4,850.0               | 5.32            | 38.54       | 4,841.5               | -86.5        | 206.1        | -79.3                   | 1.05                    | 0.92                   | 5.64                  |
| 4,875.0               | 5.67            | 39.71       | 4,866.4               | -84.7        | 207.6        | -77.4                   | 1.47                    | 1.40                   | 4.68                  |
| 4,900.0               | 5.95            | 43.59       | 4,891.3               | -82.8        | 209.3        | -75.4                   | 1.93                    | 1.12                   | 15.52                 |
| 4,925.0               | 6.01            | 44.82       | 4,916.1               | -80.9        | 211.1        | -73.5                   | 0.57                    | 0.24                   | 4.92                  |
| 4,950.0               | 6.14            | 46.76       | 4,941.0               | -79.1        | 213.0        | -71.6                   | 0.97                    | 0.52                   | 7.76                  |
| 4,975.0               | 6.37            | 47.64       | 4,965.9               | -77.2        | 215.0        | -69.7                   | 1.00                    | 0.92                   | 3.52                  |
| 5,000.0               | 6.57            | 48.56       | 4,990.7               | -75.3        | 217.1        | -67.7                   | 0.90                    | 0.80                   | 3.68                  |
| 5,025.0               | 6.87            | 48.85       | 5,015.5               | -73.4        | 219.3        | -65.7                   | 1.21                    | 1.20                   | 1.16                  |
| 5,050.0               | 7.22            | 49.64       | 5,040.3               | -71.4        | 221.6        | -63.6                   | 1.45                    | 1.40                   | 3.16                  |
| 5,075.0               | 7.79            | 49.91       | 5,065.1               | -69.3        | 224.1        | -61.4                   | 2.28                    | 2.28                   | 1.08                  |
| 5,100.0               | 8.37            | 50.16       | 5,089.9               | -67.0        | 226.8        | -59.1                   | 2.32                    | 2.32                   | 1.00                  |
| 5,125.0               | 8.77            | 50.51       | 5,114.6               | -64.7        | 229.6        | -56.6                   | 1.61                    | 1.60                   | 1.40                  |
| 5,150.0               | 9.53            | 50.06       | 5,139.3               | -62.1        | 232.7        | -54.0                   | 3.05                    | 3.04                   | -1.80                 |
| 5,175.0               | 10.16           | 49.18       | 5,163.9               | -59.3        | 236.0        | -51.1                   | 2.59                    | 2.52                   | -3.52                 |
| 5,200.0               | 10.66           | 49.65       | 5,188.5               | -56.4        | 239.4        | -48.0                   | 2.03                    | 2.00                   | 1.88                  |
| 5,225.0               | 11.23           | 48.90       | 5,213.0               | -53.3        | 243.0        | -44.8                   | 2.35                    | 2.28                   | -3.00                 |
| 5,250.0               | 12.04           | 48.91       | 5,237.5               | -50.0        | 246.8        | -41.4                   | 3.24                    | 3.24                   | 0.04                  |
| 5,275.0               | 12.70           | 48.92       | 5,261.9               | -46.5        | 250.8        | -37.7                   | 2.64                    | 2.64                   | 0.04                  |
| 5,300.0               | 13.24           | 48.03       | 5,286.3               | -42.8        | 255.0        | -33.9                   | 2.30                    | 2.16                   | -3.56                 |
| 5,325.0               | 13.80           | 47.47       | 5,310.6               | -38.8        | 259.3        | -29.8                   | 2.30                    | 2.24                   | -2.24                 |
| 5,350.0               | 14.72           | 47.58       | 5,334.8               | -34.7        | 263.9        | -25.5                   | 3.68                    | 3.68                   | 0.44                  |
| 5,368.8               | 15.31           | 46.45       | 5,353.0               | -31.3        | 267.4        | -22.0                   | 3.52                    | 3.16                   | -5.99                 |
| Base of Reef (BLCN)   |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,375.0               | 15.51           | 46.10       | 5,359.0               | -30.2        | 268.6        | -20.8                   | 3.52                    | 3.17                   | -5.70                 |



|           |                                              |                              |                                  |
|-----------|----------------------------------------------|------------------------------|----------------------------------|
| Company:  | Concho Resources, Inc.                       | Local Co-ordinate Reference: | Well Huckleberry State Com #505H |
| Project:  | Lea County, NM (NAD 27 NME)                  | TVD Reference:               | KB @ 3741.1usft (Latshaw 44)     |
| Site:     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | MD Reference:                | KB @ 3741.1usft (Latshaw 44)     |
| Well:     | Huckleberry State Com #505H                  | North Reference:             | Grid                             |
| Wellbore: | OWB                                          | Survey Calculation Method:   | Minimum Curvature                |
| Design:   | AWB                                          | Database:                    | EDM 5000.15 Single User Db       |

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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,400.0               | 15.82           | 46.11       | 5,383.1               | -25.5        | 273.5        | -16.0                   | 1.24                    | 1.24                   | 0.04                  |
| 5,425.0               | 15.96           | 46.37       | 5,407.1               | -20.8        | 278.4        | -11.1                   | 0.63                    | 0.56                   | 1.04                  |
| 5,450.0               | 16.01           | 45.79       | 5,431.1               | -16.0        | 283.4        | -6.1                    | 0.67                    | 0.20                   | -2.32                 |
| 5,475.0               | 16.02           | 46.09       | 5,455.2               | -11.2        | 288.4        | -1.2                    | 0.33                    | 0.04                   | 1.20                  |
| 5,500.0               | 14.61           | 46.88       | 5,479.3               | -6.7         | 293.1        | 3.5                     | 5.70                    | -5.64                  | 3.16                  |
| 5,525.0               | 12.96           | 48.47       | 5,503.6               | -2.7         | 297.5        | 7.7                     | 6.77                    | -6.60                  | 6.36                  |
| 5,550.0               | 11.76           | 50.78       | 5,528.0               | 0.8          | 301.6        | 11.3                    | 5.19                    | -4.80                  | 9.24                  |
| 5,575.0               | 9.83            | 55.02       | 5,552.5               | 3.6          | 305.3        | 14.3                    | 8.34                    | -7.72                  | 16.96                 |
| 5,600.0               | 8.40            | 60.40       | 5,577.2               | 5.8          | 308.7        | 16.5                    | 6.65                    | -5.72                  | 21.52                 |
| 5,625.0               | 7.83            | 65.97       | 5,602.0               | 7.4          | 311.8        | 18.2                    | 3.88                    | -2.28                  | 22.28                 |
| 5,650.0               | 7.46            | 70.60       | 5,626.7               | 8.6          | 314.9        | 19.6                    | 2.87                    | -1.48                  | 18.52                 |
| 5,675.0               | 7.36            | 83.09       | 5,651.5               | 9.3          | 318.0        | 20.4                    | 6.44                    | -0.40                  | 49.96                 |
| 5,700.0               | 7.55            | 93.97       | 5,676.3               | 9.4          | 321.3        | 20.6                    | 5.69                    | 0.76                   | 43.52                 |
| 5,725.0               | 7.73            | 99.58       | 5,701.1               | 9.0          | 324.6        | 20.3                    | 3.07                    | 0.72                   | 22.44                 |
| 5,750.0               | 7.42            | 107.39      | 5,725.9               | 8.3          | 327.8        | 19.7                    | 4.30                    | -1.24                  | 31.24                 |
| 5,775.0               | 7.05            | 119.19      | 5,750.7               | 7.0          | 330.6        | 18.5                    | 6.11                    | -1.48                  | 47.20                 |
| 5,800.0               | 6.58            | 129.95      | 5,775.5               | 5.4          | 333.1        | 16.9                    | 5.43                    | -1.88                  | 43.04                 |
| 5,825.0               | 6.34            | 136.55      | 5,800.4               | 3.4          | 335.1        | 15.1                    | 3.12                    | -0.96                  | 26.40                 |
| 5,827.7               | 6.23            | 137.37      | 5,803.0               | 3.2          | 335.3        | 14.9                    | 5.39                    | -4.20                  | 30.82                 |
| CYCN                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,850.0               | 5.35            | 145.55      | 5,825.2               | 1.5          | 336.7        | 13.2                    | 5.39                    | -3.93                  | 36.62                 |
| 5,875.0               | 4.63            | 156.13      | 5,850.1               | -0.4         | 337.8        | 11.3                    | 4.66                    | -2.88                  | 42.32                 |
| 5,900.0               | 3.75            | 167.17      | 5,875.1               | -2.1         | 338.4        | 9.6                     | 4.76                    | -3.52                  | 44.16                 |
| 5,925.0               | 3.07            | 175.50      | 5,900.0               | -3.6         | 338.6        | 8.2                     | 3.36                    | -2.72                  | 33.32                 |
| 5,950.0               | 2.81            | 176.36      | 5,925.0               | -4.9         | 338.7        | 6.9                     | 1.05                    | -1.04                  | 3.44                  |
| 5,975.0               | 2.67            | 175.80      | 5,950.0               | -6.1         | 338.8        | 5.7                     | 0.57                    | -0.56                  | -2.24                 |
| 6,000.0               | 2.65            | 176.36      | 5,974.9               | -7.2         | 338.9        | 4.6                     | 0.13                    | -0.08                  | 2.24                  |
| 6,025.0               | 2.64            | 170.42      | 5,999.9               | -8.4         | 339.0        | 3.4                     | 1.10                    | -0.04                  | -23.76                |
| 6,050.0               | 2.62            | 168.74      | 6,024.9               | -9.5         | 339.2        | 2.3                     | 0.32                    | -0.08                  | -6.72                 |
| 6,075.0               | 2.70            | 170.41      | 6,049.8               | -10.6        | 339.4        | 1.2                     | 0.45                    | 0.32                   | 6.68                  |
| 6,100.0               | 2.75            | 168.91      | 6,074.8               | -11.8        | 339.6        | 0.0                     | 0.35                    | 0.20                   | -6.00                 |
| 6,125.0               | 2.86            | 169.30      | 6,099.8               | -13.0        | 339.9        | -1.2                    | 0.45                    | 0.44                   | 1.56                  |
| 6,150.0               | 2.95            | 168.94      | 6,124.8               | -14.3        | 340.1        | -2.4                    | 0.37                    | 0.36                   | -1.44                 |
| 6,175.0               | 3.02            | 167.63      | 6,149.7               | -15.5        | 340.4        | -3.7                    | 0.39                    | 0.28                   | -5.24                 |
| 6,200.0               | 3.05            | 169.01      | 6,174.7               | -16.8        | 340.6        | -5.0                    | 0.32                    | 0.12                   | 5.52                  |
| 6,225.0               | 3.11            | 168.34      | 6,199.7               | -18.1        | 340.9        | -6.3                    | 0.28                    | 0.24                   | -2.68                 |
| 6,250.0               | 3.21            | 167.98      | 6,224.6               | -19.5        | 341.2        | -7.6                    | 0.41                    | 0.40                   | -1.44                 |
| 6,275.0               | 3.34            | 166.10      | 6,249.6               | -20.9        | 341.5        | -9.0                    | 0.67                    | 0.52                   | -7.52                 |
| 6,300.0               | 3.35            | 166.48      | 6,274.5               | -22.3        | 341.8        | -10.4                   | 0.10                    | 0.04                   | 1.52                  |
| 6,325.0               | 3.21            | 166.07      | 6,299.5               | -23.7        | 342.2        | -11.8                   | 0.57                    | -0.56                  | -1.64                 |
| 6,350.0               | 3.40            | 165.27      | 6,324.4               | -25.1        | 342.5        | -13.1                   | 0.78                    | 0.76                   | -3.20                 |
| 6,375.0               | 3.47            | 165.10      | 6,349.4               | -26.5        | 342.9        | -14.6                   | 0.28                    | 0.28                   | -0.68                 |
| 6,400.0               | 3.47            | 165.50      | 6,374.4               | -28.0        | 343.3        | -16.0                   | 0.10                    | 0.00                   | 1.60                  |
| 6,425.0               | 3.50            | 163.79      | 6,399.3               | -29.5        | 343.7        | -17.5                   | 0.43                    | 0.12                   | -6.84                 |



|           |                                              |                              |                                  |
|-----------|----------------------------------------------|------------------------------|----------------------------------|
| Company:  | Concho Resources, Inc.                       | Local Co-ordinate Reference: | Well Huckleberry State Com #505H |
| Project:  | Lea County, NM (NAD 27 NME)                  | TVD Reference:               | KB @ 3741.1usft (Latshaw 44)     |
| Site:     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | MD Reference:                | KB @ 3741.1usft (Latshaw 44)     |
| Well:     | Huckleberry State Com #505H                  | North Reference:             | Grid                             |
| Wellbore: | OWB                                          | Survey Calculation Method:   | Minimum Curvature                |
| Design:   | AWB                                          | Database:                    | EDM 5000.15 Single User Db       |

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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 6,450.0               | 3.55            | 163.71      | 6,424.3               | -30.9        | 344.1        | -18.9                   | 0.20                    | 0.20                   | -0.32                 |
| 6,475.0               | 3.60            | 162.71      | 6,449.2               | -32.4        | 344.6        | -20.4                   | 0.32                    | 0.20                   | -4.00                 |
| 6,500.0               | 3.44            | 161.41      | 6,474.2               | -33.9        | 345.1        | -21.9                   | 0.72                    | -0.64                  | -5.20                 |
| 6,525.0               | 2.90            | 150.47      | 6,499.1               | -35.2        | 345.6        | -23.1                   | 3.23                    | -2.16                  | -43.76                |
| 6,550.0               | 2.53            | 145.55      | 6,524.1               | -36.2        | 346.2        | -24.1                   | 1.75                    | -1.48                  | -19.68                |
| 6,575.0               | 2.50            | 143.05      | 6,549.1               | -37.1        | 346.9        | -25.0                   | 0.45                    | -0.12                  | -10.00                |
| 6,600.0               | 2.48            | 143.03      | 6,574.1               | -37.9        | 347.5        | -25.8                   | 0.08                    | -0.08                  | -0.08                 |
| 6,625.0               | 2.45            | 143.30      | 6,599.0               | -38.8        | 348.2        | -26.6                   | 0.13                    | -0.12                  | 1.08                  |
| 6,650.0               | 2.45            | 144.00      | 6,624.0               | -39.6        | 348.8        | -27.5                   | 0.12                    | 0.00                   | 2.80                  |
| 6,675.0               | 2.50            | 144.18      | 6,649.0               | -40.5        | 349.4        | -28.3                   | 0.20                    | 0.20                   | 0.72                  |
| 6,700.0               | 2.53            | 154.12      | 6,674.0               | -41.5        | 350.0        | -29.2                   | 1.75                    | 0.12                   | 39.76                 |
| 6,725.0               | 2.66            | 166.99      | 6,698.9               | -42.5        | 350.4        | -30.3                   | 2.38                    | 0.52                   | 51.48                 |
| 6,750.0               | 2.80            | 171.34      | 6,723.9               | -43.7        | 350.6        | -31.4                   | 1.00                    | 0.56                   | 17.40                 |
| 6,775.0               | 2.94            | 171.97      | 6,748.9               | -44.9        | 350.8        | -32.7                   | 0.57                    | 0.56                   | 2.52                  |
| 6,800.0               | 2.82            | 173.12      | 6,773.8               | -46.2        | 350.9        | -33.9                   | 0.53                    | -0.48                  | 4.60                  |
| 6,825.0               | 2.79            | 172.77      | 6,798.8               | -47.4        | 351.1        | -35.1                   | 0.14                    | -0.12                  | -1.40                 |
| 6,850.0               | 2.90            | 172.24      | 6,823.8               | -48.6        | 351.3        | -36.4                   | 0.45                    | 0.44                   | -2.12                 |
| 6,875.0               | 2.90            | 173.04      | 6,848.8               | -49.9        | 351.4        | -37.6                   | 0.16                    | 0.00                   | 3.20                  |
| 6,900.0               | 2.95            | 172.16      | 6,873.7               | -51.1        | 351.6        | -38.9                   | 0.27                    | 0.20                   | -3.52                 |
| 6,925.0               | 2.98            | 171.51      | 6,898.7               | -52.4        | 351.8        | -40.1                   | 0.18                    | 0.12                   | -2.60                 |
| 6,950.0               | 2.93            | 172.11      | 6,923.7               | -53.7        | 352.0        | -41.4                   | 0.24                    | -0.20                  | 2.40                  |
| 6,975.0               | 2.83            | 169.51      | 6,948.6               | -54.9        | 352.2        | -42.6                   | 0.66                    | -0.40                  | -10.40                |
| 7,000.0               | 2.43            | 163.43      | 6,973.6               | -56.0        | 352.4        | -43.7                   | 1.95                    | -1.60                  | -24.32                |
| 7,025.0               | 2.10            | 158.11      | 6,998.6               | -57.0        | 352.7        | -44.7                   | 1.56                    | -1.32                  | -21.28                |
| 7,050.0               | 1.99            | 159.35      | 7,023.6               | -57.8        | 353.1        | -45.5                   | 0.47                    | -0.44                  | 4.96                  |
| 7,075.0               | 2.11            | 159.81      | 7,048.5               | -58.6        | 353.4        | -46.3                   | 0.48                    | 0.48                   | 1.84                  |
| 7,100.0               | 2.12            | 160.84      | 7,073.5               | -59.5        | 353.7        | -47.2                   | 0.16                    | 0.04                   | 4.12                  |
| 7,125.0               | 2.11            | 158.74      | 7,098.5               | -60.4        | 354.0        | -48.0                   | 0.31                    | -0.04                  | -8.40                 |
| 7,150.0               | 2.10            | 158.39      | 7,123.5               | -61.2        | 354.3        | -48.9                   | 0.07                    | -0.04                  | -1.40                 |
| 7,175.0               | 2.09            | 156.57      | 7,148.5               | -62.1        | 354.7        | -49.7                   | 0.27                    | -0.04                  | -7.28                 |
| 7,200.0               | 2.17            | 156.37      | 7,173.5               | -62.9        | 355.1        | -50.5                   | 0.32                    | 0.32                   | -0.80                 |
| 7,225.0               | 2.16            | 154.49      | 7,198.4               | -63.8        | 355.5        | -51.4                   | 0.29                    | -0.04                  | -7.52                 |
| 7,246.6               | 2.13            | 155.26      | 7,220.0               | -64.5        | 355.8        | -52.1                   | 0.21                    | -0.16                  | 3.55                  |
| BYCN                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,250.0               | 2.12            | 155.38      | 7,223.4               | -64.6        | 355.8        | -52.2                   | 0.21                    | -0.16                  | 3.63                  |
| 7,275.0               | 2.05            | 158.07      | 7,248.4               | -65.5        | 356.2        | -53.0                   | 0.48                    | -0.28                  | 10.76                 |
| 7,300.0               | 2.23            | 161.28      | 7,273.4               | -66.3        | 356.5        | -53.9                   | 0.86                    | 0.72                   | 12.84                 |
| 7,325.0               | 2.22            | 160.34      | 7,298.4               | -67.3        | 356.8        | -54.8                   | 0.15                    | -0.04                  | -3.76                 |
| 7,350.0               | 2.22            | 160.61      | 7,323.4               | -68.2        | 357.2        | -55.7                   | 0.04                    | 0.00                   | 1.08                  |
| 7,375.0               | 2.24            | 156.77      | 7,348.3               | -69.1        | 357.5        | -56.6                   | 0.60                    | 0.08                   | -15.36                |
| 7,400.0               | 2.33            | 159.14      | 7,373.3               | -70.0        | 357.9        | -57.5                   | 0.52                    | 0.36                   | 9.48                  |
| 7,425.0               | 2.31            | 157.88      | 7,398.3               | -70.9        | 358.3        | -58.4                   | 0.22                    | -0.08                  | -5.04                 |
| 7,450.0               | 2.22            | 159.58      | 7,423.3               | -71.9        | 358.6        | -59.3                   | 0.45                    | -0.36                  | 6.80                  |



**Intrepid**  
Survey Report



|                  |                                              |                                     |                                  |
|------------------|----------------------------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | Concho Resources, Inc.                       | <b>Local Co-ordinate Reference:</b> | Well Huckleberry State Com #505H |
| <b>Project:</b>  | Lea County, NM (NAD 27 NME)                  | <b>TVD Reference:</b>               | KB @ 3741.1usft (Latshaw 44)     |
| <b>Site:</b>     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | <b>MD Reference:</b>                | KB @ 3741.1usft (Latshaw 44)     |
| <b>Well:</b>     | Huckleberry State Com #505H                  | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWB                                          | <b>Database:</b>                    | EDM 5000.15 Single User Db       |

**Survey**

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N-S<br>(usft) | +E-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|----------------|----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 7,475.0                     | 2.21               | 159.13         | 7,448.3                     | -72.8          | 359.0          | -60.2                         | 0.08                          | -0.04                        | -1.80                       |
| 7,500.0                     | 2.22               | 159.25         | 7,473.2                     | -73.7          | 359.3          | -61.1                         | 0.04                          | 0.04                         | 0.48                        |
| 7,525.0                     | 2.20               | 159.47         | 7,498.2                     | -74.6          | 359.7          | -62.0                         | 0.09                          | -0.08                        | 0.88                        |
| 7,550.0                     | 2.24               | 159.70         | 7,523.2                     | -75.5          | 360.0          | -62.9                         | 0.16                          | 0.16                         | 0.92                        |
| 7,575.0                     | 2.19               | 157.46         | 7,548.2                     | -76.4          | 360.3          | -63.8                         | 0.40                          | -0.20                        | -8.96                       |
| 7,600.0                     | 2.18               | 158.48         | 7,573.2                     | -77.3          | 360.7          | -64.7                         | 0.16                          | -0.04                        | 4.08                        |
| 7,625.0                     | 2.18               | 159.41         | 7,598.1                     | -78.2          | 361.0          | -65.5                         | 0.14                          | 0.00                         | 3.72                        |
| 7,650.0                     | 2.08               | 161.24         | 7,623.1                     | -79.0          | 361.4          | -66.4                         | 0.48                          | -0.40                        | 7.32                        |
| 7,675.0                     | 2.28               | 163.86         | 7,648.1                     | -79.9          | 361.6          | -67.3                         | 0.89                          | 0.80                         | 10.48                       |
| 7,700.0                     | 2.08               | 157.05         | 7,673.1                     | -80.8          | 362.0          | -68.2                         | 1.31                          | -0.80                        | -27.24                      |
| 7,725.0                     | 1.97               | 154.37         | 7,698.1                     | -81.6          | 362.3          | -69.0                         | 0.58                          | -0.44                        | -10.72                      |
| 7,750.0                     | 1.40               | 120.84         | 7,723.1                     | -82.2          | 362.8          | -69.5                         | 4.46                          | -2.28                        | -134.12                     |
| 7,775.0                     | 1.47               | 98.81          | 7,748.1                     | -82.4          | 363.3          | -69.7                         | 2.21                          | 0.28                         | -88.12                      |
| 7,800.0                     | 1.60               | 94.03          | 7,773.0                     | -82.5          | 364.0          | -69.7                         | 0.73                          | 0.52                         | -19.12                      |
| 7,825.0                     | 1.67               | 87.63          | 7,798.0                     | -82.5          | 364.7          | -69.7                         | 0.78                          | 0.28                         | -25.60                      |
| 7,850.0                     | 1.68               | 86.00          | 7,823.0                     | -82.4          | 365.4          | -69.7                         | 0.19                          | 0.04                         | -6.52                       |
| 7,875.0                     | 1.64               | 84.55          | 7,848.0                     | -82.4          | 366.2          | -69.6                         | 0.23                          | -0.16                        | -5.80                       |
| 7,900.0                     | 1.71               | 80.91          | 7,873.0                     | -82.3          | 366.9          | -69.5                         | 0.51                          | 0.28                         | -14.56                      |
| 7,925.0                     | 1.65               | 82.39          | 7,898.0                     | -82.2          | 367.6          | -69.3                         | 0.30                          | -0.24                        | 5.92                        |
| 7,950.0                     | 1.77               | 82.12          | 7,923.0                     | -82.1          | 368.4          | -69.2                         | 0.48                          | 0.48                         | -1.08                       |
| 7,975.0                     | 1.78               | 81.38          | 7,948.0                     | -82.0          | 369.1          | -69.1                         | 0.10                          | 0.04                         | -2.96                       |
| 8,000.0                     | 1.69               | 83.71          | 7,973.0                     | -81.9          | 369.9          | -68.9                         | 0.46                          | -0.36                        | 9.32                        |
| 8,025.0                     | 1.81               | 96.09          | 7,997.9                     | -81.9          | 370.6          | -68.9                         | 1.58                          | 0.48                         | 49.52                       |
| 8,050.0                     | 2.08               | 107.61         | 8,022.9                     | -82.0          | 371.5          | -69.1                         | 1.90                          | 1.08                         | 46.08                       |
| 8,075.0                     | 2.24               | 109.90         | 8,047.9                     | -82.3          | 372.4          | -69.3                         | 0.73                          | 0.64                         | 9.16                        |
| 8,100.0                     | 2.31               | 111.42         | 8,072.9                     | -82.7          | 373.3          | -69.6                         | 0.37                          | 0.28                         | 6.08                        |
| 8,125.0                     | 2.42               | 110.62         | 8,097.9                     | -83.1          | 374.2          | -70.0                         | 0.46                          | 0.44                         | -3.20                       |
| 8,150.0                     | 2.33               | 111.66         | 8,122.9                     | -83.4          | 375.2          | -70.3                         | 0.40                          | -0.36                        | 4.16                        |
| 8,175.0                     | 2.41               | 108.12         | 8,147.8                     | -83.8          | 376.2          | -70.6                         | 0.67                          | 0.32                         | -14.16                      |
| 8,200.0                     | 2.41               | 108.38         | 8,172.8                     | -84.1          | 377.2          | -70.9                         | 0.04                          | 0.00                         | 1.04                        |
| 8,225.0                     | 2.42               | 109.24         | 8,197.8                     | -84.5          | 378.2          | -71.2                         | 0.15                          | 0.04                         | 3.44                        |
| 8,250.0                     | 2.41               | 108.71         | 8,222.8                     | -84.8          | 379.2          | -71.5                         | 0.10                          | -0.04                        | -2.12                       |
| 8,275.0                     | 2.39               | 108.33         | 8,247.7                     | -85.1          | 380.2          | -71.8                         | 0.10                          | -0.08                        | -1.52                       |
| 8,300.0                     | 2.41               | 107.64         | 8,272.7                     | -85.5          | 381.2          | -72.1                         | 0.14                          | 0.08                         | -2.76                       |
| 8,325.0                     | 2.37               | 107.65         | 8,297.7                     | -85.8          | 382.2          | -72.4                         | 0.16                          | -0.16                        | 0.04                        |
| 8,350.0                     | 2.24               | 105.76         | 8,322.7                     | -86.1          | 383.1          | -72.7                         | 0.60                          | -0.52                        | -7.56                       |
| 8,375.0                     | 2.11               | 106.34         | 8,347.7                     | -86.3          | 384.0          | -72.9                         | 0.53                          | -0.52                        | 2.32                        |
| 8,400.0                     | 2.10               | 105.07         | 8,372.6                     | -86.6          | 384.9          | -73.1                         | 0.19                          | -0.04                        | -5.08                       |
| 8,425.0                     | 2.13               | 104.78         | 8,397.6                     | -86.8          | 385.8          | -73.3                         | 0.13                          | 0.12                         | -1.16                       |
| 8,450.0                     | 2.10               | 102.90         | 8,422.6                     | -87.0          | 386.7          | -73.5                         | 0.30                          | -0.12                        | -7.52                       |
| 8,475.0                     | 2.00               | 102.09         | 8,447.6                     | -87.2          | 387.6          | -73.7                         | 0.42                          | -0.40                        | -3.24                       |
| 8,500.0                     | 2.00               | 102.72         | 8,472.6                     | -87.4          | 388.4          | -73.8                         | 0.09                          | 0.00                         | 2.52                        |
| 8,525.0                     | 2.02               | 101.91         | 8,497.6                     | -87.6          | 389.3          | -74.0                         | 0.14                          | 0.08                         | -3.24                       |
| 8,550.0                     | 1.98               | 101.31         | 8,522.5                     | -87.8          | 390.1          | -74.1                         | 0.18                          | -0.16                        | -2.40                       |

|                  |                                              |                                     |                                  |
|------------------|----------------------------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | Concho Resources, Inc.                       | <b>Local Co-ordinate Reference:</b> | Well Huckleberry State Com #505H |
| <b>Project:</b>  | Lea County, NM (NAD 27 NME)                  | <b>TVD Reference:</b>               | KB @ 3741.1usft (Latshaw 44)     |
| <b>Site:</b>     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | <b>MD Reference:</b>                | KB @ 3741.1usft (Latshaw 44)     |
| <b>Well:</b>     | Huckleberry State Com #505H                  | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWB                                          | <b>Database:</b>                    | EDM 5000.15 Single User Db       |

**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) |
|---------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,575.0                   | 1.88            | 101.86      | 8,547.5               | -87.9        | 391.0        | -74.3                   | 0.41                    | -0.40                  | 2.20                  |
| 8,600.0                   | 1.91            | 103.41      | 8,572.5               | -88.1        | 391.8        | -74.4                   | 0.24                    | 0.12                   | 6.20                  |
| 8,625.0                   | 1.95            | 103.16      | 8,597.5               | -88.3        | 392.6        | -74.6                   | 0.16                    | 0.16                   | -1.00                 |
| 8,650.0                   | 1.88            | 102.59      | 8,622.5               | -88.5        | 393.4        | -74.8                   | 0.29                    | -0.28                  | -2.28                 |
| 8,675.0                   | 2.02            | 101.20      | 8,647.5               | -88.7        | 394.2        | -74.9                   | 0.59                    | 0.56                   | -5.56                 |
| 8,700.0                   | 2.07            | 102.43      | 8,672.5               | -88.9        | 395.1        | -75.0                   | 0.27                    | 0.20                   | 4.92                  |
| 8,725.0                   | 1.93            | 102.77      | 8,697.4               | -89.1        | 396.0        | -75.2                   | 0.56                    | -0.56                  | 1.36                  |
| 8,750.0                   | 1.91            | 102.21      | 8,722.4               | -89.2        | 396.8        | -75.4                   | 0.11                    | -0.08                  | -2.24                 |
| 8,775.0                   | 1.92            | 99.42       | 8,747.4               | -89.4        | 397.6        | -75.5                   | 0.38                    | 0.04                   | -11.16                |
| 8,800.0                   | 1.79            | 100.11      | 8,772.4               | -89.5        | 398.4        | -75.6                   | 0.53                    | -0.52                  | 2.76                  |
| 8,825.0                   | 1.78            | 100.60      | 8,797.4               | -89.7        | 399.2        | -75.7                   | 0.07                    | -0.04                  | 1.96                  |
| 8,833.6                   | 1.76            | 99.89       | 8,806.0               | -89.7        | 399.4        | -75.8                   | 0.38                    | -0.28                  | -8.30                 |
| <b>Bone Spring (BSGL)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,850.0                   | 1.71            | 98.47       | 8,822.4               | -89.8        | 399.9        | -75.8                   | 0.38                    | -0.28                  | -8.64                 |
| 8,875.0                   | 1.68            | 100.07      | 8,847.4               | -89.9        | 400.6        | -75.9                   | 0.22                    | -0.12                  | 6.40                  |
| 8,900.0                   | 1.72            | 99.05       | 8,872.4               | -90.0        | 401.4        | -76.0                   | 0.20                    | 0.16                   | -4.08                 |
| 8,925.0                   | 1.69            | 98.04       | 8,897.3               | -90.1        | 402.1        | -76.1                   | 0.17                    | -0.12                  | -4.04                 |
| 8,950.0                   | 1.59            | 99.92       | 8,922.3               | -90.3        | 402.8        | -76.2                   | 0.45                    | -0.40                  | 7.52                  |
| 8,975.0                   | 1.59            | 105.47      | 8,947.3               | -90.4        | 403.5        | -76.3                   | 0.62                    | 0.00                   | 22.20                 |
| 9,000.0                   | 1.58            | 99.24       | 8,972.3               | -90.6        | 404.2        | -76.4                   | 0.69                    | -0.04                  | -24.92                |
| 9,025.0                   | 1.51            | 104.79      | 8,997.3               | -90.7        | 404.8        | -76.5                   | 0.66                    | -0.28                  | 22.20                 |
| 9,050.0                   | 1.74            | 108.66      | 9,022.3               | -90.9        | 405.5        | -76.7                   | 1.02                    | 0.92                   | 15.48                 |
| 9,075.0                   | 2.17            | 115.07      | 9,047.3               | -91.2        | 406.3        | -77.0                   | 1.93                    | 1.72                   | 25.64                 |
| 9,100.0                   | 2.26            | 120.75      | 9,072.3               | -91.7        | 407.1        | -77.4                   | 0.95                    | 0.36                   | 22.72                 |
| 9,125.0                   | 2.40            | 123.72      | 9,097.2               | -92.2        | 408.0        | -78.0                   | 0.74                    | 0.56                   | 11.88                 |
| 9,150.0                   | 2.53            | 122.05      | 9,122.2               | -92.8        | 408.9        | -78.5                   | 0.59                    | 0.52                   | -6.68                 |
| 9,175.0                   | 2.35            | 121.08      | 9,147.2               | -93.4        | 409.8        | -79.0                   | 0.74                    | -0.72                  | -3.88                 |
| 9,200.0                   | 2.37            | 124.36      | 9,172.2               | -93.9        | 410.7        | -79.6                   | 0.55                    | 0.08                   | 13.12                 |
| 9,225.0                   | 2.05            | 125.83      | 9,197.2               | -94.5        | 411.5        | -80.1                   | 1.30                    | -1.28                  | 5.88                  |
| 9,250.0                   | 2.07            | 126.42      | 9,222.1               | -95.0        | 412.2        | -80.6                   | 0.12                    | 0.08                   | 2.36                  |
| 9,275.0                   | 1.82            | 125.57      | 9,247.1               | -95.5        | 412.9        | -81.1                   | 1.01                    | -1.00                  | -3.40                 |
| 9,281.9                   | 1.84            | 125.72      | 9,254.0               | -95.6        | 413.1        | -81.2                   | 0.29                    | 0.28                   | 2.18                  |
| <b>U Avalon Sh</b>        |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,300.0                   | 1.89            | 126.10      | 9,272.1               | -96.0        | 413.5        | -81.5                   | 0.29                    | 0.28                   | 2.10                  |
| 9,325.0                   | 1.74            | 128.42      | 9,297.1               | -96.4        | 414.2        | -82.0                   | 0.67                    | -0.60                  | 9.28                  |
| 9,350.0                   | 1.61            | 125.73      | 9,322.1               | -96.9        | 414.7        | -82.4                   | 0.61                    | -0.52                  | -10.76                |
| 9,375.0                   | 1.61            | 123.54      | 9,347.1               | -97.3        | 415.3        | -82.8                   | 0.25                    | 0.00                   | -8.76                 |
| 9,400.0                   | 1.65            | 116.35      | 9,372.1               | -97.6        | 415.9        | -83.1                   | 0.83                    | 0.16                   | -28.76                |
| 9,421.9                   | 1.69            | 113.26      | 9,394.0               | -97.9        | 416.5        | -83.3                   | 0.46                    | 0.20                   | -14.09                |
| <b>L Avalon Sh</b>        |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,425.0                   | 1.70            | 112.84      | 9,397.1               | -97.9        | 416.6        | -83.4                   | 0.46                    | 0.21                   | -13.67                |
| 9,450.0                   | 1.83            | 109.34      | 9,422.1               | -98.2        | 417.3        | -83.6                   | 0.68                    | 0.52                   | -14.00                |
| 9,475.0                   | 1.94            | 106.74      | 9,447.0               | -98.5        | 418.1        | -83.9                   | 0.56                    | 0.44                   | -10.40                |
| 9,500.0                   | 1.78            | 106.82      | 9,472.0               | -98.7        | 418.9        | -84.1                   | 0.64                    | -0.64                  | 0.32                  |



|           |                                              |                              |                                  |
|-----------|----------------------------------------------|------------------------------|----------------------------------|
| Company:  | Concho Resources, Inc.                       | Local Co-ordinate Reference: | Well Huckleberry State Com #505H |
| Project:  | Lea County, NM (NAD 27 NME)                  | TVD Reference:               | KB @ 3741.1usft (Latshaw 44)     |
| Site:     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | MD Reference:                | KB @ 3741.1usft (Latshaw 44)     |
| Well:     | Huckleberry State Com #505H                  | North Reference:             | Grid                             |
| Wellbore: | OWB                                          | Survey Calculation Method:   | Minimum Curvature                |
| Design:   | AWB                                          | Database:                    | EDM 5000.15 Single User Db       |

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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 9,525.0               | 1.76            | 104.95      | 9,497.0               | -98.9        | 419.6        | -84.3                   | 0.24                    | -0.08                  | -7.48                 |
| 9,550.0               | 1.69            | 97.02       | 9,522.0               | -99.1        | 420.4        | -84.4                   | 0.99                    | -0.28                  | -31.72                |
| 9,575.0               | 1.60            | 89.88       | 9,547.0               | -99.1        | 421.1        | -84.4                   | 0.89                    | -0.36                  | -28.56                |
| 9,600.0               | 1.54            | 85.08       | 9,572.0               | -99.1        | 421.8        | -84.3                   | 0.58                    | -0.24                  | -19.20                |
| 9,625.0               | 1.25            | 99.26       | 9,597.0               | -99.1        | 422.4        | -84.3                   | 1.80                    | -1.16                  | 56.72                 |
| 9,650.0               | 1.19            | 137.79      | 9,622.0               | -99.3        | 422.8        | -84.6                   | 3.23                    | -0.24                  | 154.12                |
| 9,675.0               | 1.33            | 163.04      | 9,647.0               | -99.8        | 423.1        | -85.0                   | 2.27                    | 0.56                   | 101.00                |
| 9,700.0               | 1.44            | 182.37      | 9,672.0               | -100.4       | 423.1        | -85.6                   | 1.91                    | 0.44                   | 77.32                 |
| 9,725.0               | 1.61            | 191.92      | 9,696.9               | -101.1       | 423.1        | -86.3                   | 1.22                    | 0.68                   | 38.20                 |
| 9,750.0               | 1.67            | 192.66      | 9,721.9               | -101.8       | 422.9        | -87.0                   | 0.25                    | 0.24                   | 2.96                  |
| 9,775.0               | 1.66            | 193.80      | 9,746.9               | -102.5       | 422.7        | -87.7                   | 0.14                    | -0.04                  | 4.56                  |
| 9,800.0               | 1.57            | 195.40      | 9,771.9               | -103.1       | 422.6        | -88.4                   | 0.40                    | -0.36                  | 6.40                  |
| 9,825.0               | 1.48            | 192.17      | 9,796.9               | -103.8       | 422.4        | -89.0                   | 0.50                    | -0.36                  | -12.92                |
| 9,850.0               | 1.48            | 196.33      | 9,821.9               | -104.4       | 422.2        | -89.6                   | 0.43                    | 0.00                   | 16.64                 |
| 9,875.0               | 1.40            | 208.88      | 9,846.9               | -105.0       | 422.0        | -90.2                   | 1.30                    | -0.32                  | 50.20                 |
| 9,900.0               | 1.42            | 212.19      | 9,871.9               | -105.5       | 421.7        | -90.8                   | 0.34                    | 0.08                   | 13.24                 |
| 9,921.1               | 1.30            | 200.41      | 9,893.0               | -106.0       | 421.5        | -91.2                   | 1.44                    | -0.59                  | -55.76                |
| B Avalon Sh           |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,925.0               | 1.28            | 198.03      | 9,896.9               | -106.0       | 421.4        | -91.3                   | 1.44                    | -0.42                  | -61.44                |
| 9,950.0               | 1.57            | 215.08      | 9,921.9               | -106.6       | 421.2        | -91.9                   | 2.04                    | 1.16                   | 68.20                 |
| 9,975.0               | 1.61            | 223.53      | 9,946.9               | -107.1       | 420.7        | -92.4                   | 0.95                    | 0.16                   | 33.80                 |
| 10,000.0              | 1.69            | 230.93      | 9,971.8               | -107.6       | 420.2        | -92.9                   | 0.91                    | 0.32                   | 29.60                 |
| 10,025.0              | 1.84            | 238.00      | 9,996.8               | -108.1       | 419.6        | -93.4                   | 1.06                    | 0.60                   | 28.28                 |
| 10,042.0              | 1.42            | 240.78      | 10,013.8              | -108.3       | 419.1        | -93.6                   | 2.51                    | -2.47                  | 16.35                 |
| 10,079.2              | 1.48            | 238.86      | 10,051.0              | -108.8       | 418.3        | -94.1                   | 0.20                    | 0.15                   | -5.17                 |
| FBSG_sand             |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,158.0              | 1.60            | 235.24      | 10,129.8              | -109.9       | 416.6        | -95.4                   | 0.20                    | 0.16                   | -4.59                 |
| 10,189.0              | 2.23            | 307.98      | 10,160.8              | -109.8       | 415.7        | -95.3                   | 7.51                    | 2.03                   | 234.65                |
| 10,220.0              | 5.94            | 340.66      | 10,191.7              | -107.9       | 414.7        | -93.4                   | 13.67                   | 11.97                  | 105.42                |
| 10,252.0              | 9.53            | 354.73      | 10,223.4              | -103.7       | 413.9        | -89.2                   | 12.60                   | 11.22                  | 43.97                 |
| 10,283.0              | 12.92           | 2.98        | 10,253.8              | -97.7        | 413.9        | -83.2                   | 12.07                   | 10.94                  | 26.61                 |
| 10,315.0              | 13.27           | 5.94        | 10,285.0              | -90.5        | 414.4        | -76.0                   | 2.36                    | 1.09                   | 9.25                  |
| 10,346.0              | 16.24           | 2.63        | 10,315.0              | -82.6        | 415.0        | -68.1                   | 9.96                    | 9.58                   | -10.68                |
| 10,377.0              | 18.72           | 1.34        | 10,344.5              | -73.3        | 415.3        | -58.8                   | 8.10                    | 8.00                   | -4.16                 |
| 10,409.0              | 22.34           | 2.65        | 10,374.5              | -62.1        | 415.7        | -47.6                   | 11.40                   | 11.31                  | 4.09                  |
| 10,441.0              | 26.23           | 1.82        | 10,403.6              | -48.9        | 416.2        | -34.4                   | 12.20                   | 12.16                  | -2.59                 |
| 10,472.0              | 31.50           | 0.67        | 10,430.8              | -34.0        | 416.5        | -19.5                   | 17.09                   | 17.00                  | -3.71                 |
| 10,503.0              | 36.31           | 0.23        | 10,456.5              | -16.7        | 416.7        | -2.2                    | 15.54                   | 15.52                  | -1.42                 |
| 10,535.0              | 41.14           | 359.44      | 10,481.5              | 3.3          | 416.6        | 17.8                    | 15.17                   | 15.09                  | -2.47                 |
| 10,566.0              | 46.58           | 0.03        | 10,503.8              | 24.8         | 416.5        | 39.3                    | 17.60                   | 17.55                  | 1.90                  |
| 10,597.0              | 50.65           | 0.06        | 10,524.3              | 48.0         | 416.5        | 62.5                    | 13.13                   | 13.13                  | 0.10                  |
| 10,629.0              | 52.91           | 0.00        | 10,544.1              | 73.2         | 416.5        | 87.6                    | 7.06                    | 7.06                   | -0.19                 |
| 10,661.0              | 53.13           | 359.21      | 10,563.3              | 98.7         | 416.4        | 113.2                   | 2.09                    | 0.69                   | -2.47                 |



|           |                                              |                              |                                  |
|-----------|----------------------------------------------|------------------------------|----------------------------------|
| Company:  | Concho Resources, Inc.                       | Local Co-ordinate Reference: | Well Huckleberry State Com #505H |
| Project:  | Lea County, NM (NAD 27 NME)                  | TVD Reference:               | KB @ 3741.1usft (Latshaw 44)     |
| Site:     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | MD Reference:                | KB @ 3741.1usft (Latshaw 44)     |
| Well:     | Huckleberry State Com #505H                  | North Reference:             | Grid                             |
| Wellbore: | OWB                                          | Survey Calculation Method:   | Minimum Curvature                |
| Design:   | AWB                                          | Database:                    | EDM 5000.15 Single User Db       |

Survey

| Measured<br>Depth<br>(usft)         | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-------------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 10,692.0                            | 56.32              | 0.07           | 10,581.2                    | 124.0           | 416.2           | 138.5                         | 10.54                         | 10.29                        | 2.77                        |
| 10,723.0                            | 58.20              | 0.95           | 10,598.0                    | 150.1           | 416.5           | 164.5                         | 6.52                          | 6.06                         | 2.84                        |
| 10,728.7                            | 58.14              | 0.96           | 10,601.0                    | 154.9           | 416.5           | 169.4                         | 1.10                          | -1.09                        | 0.09                        |
| SBSG_sand                           |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 10,755.0                            | 57.85              | 0.98           | 10,615.0                    | 177.3           | 416.9           | 191.7                         | 1.10                          | -1.09                        | 0.09                        |
| 10,786.0                            | 57.45              | 0.73           | 10,631.5                    | 203.4           | 417.3           | 217.9                         | 1.46                          | -1.29                        | -0.81                       |
| 10,818.0                            | 57.37              | 0.42           | 10,648.8                    | 230.4           | 417.6           | 244.8                         | 0.85                          | -0.25                        | -0.97                       |
| 10,849.0                            | 57.06              | 359.75         | 10,665.6                    | 256.5           | 417.6           | 270.9                         | 2.07                          | -1.00                        | -2.16                       |
| 10,881.0                            | 59.81              | 1.86           | 10,682.3                    | 283.7           | 418.0           | 298.1                         | 10.27                         | 8.59                         | 6.59                        |
| 10,912.0                            | 62.24              | 4.15           | 10,697.3                    | 310.8           | 419.4           | 325.2                         | 10.16                         | 7.84                         | 7.39                        |
| 10,944.0                            | 62.60              | 4.69           | 10,712.1                    | 339.1           | 421.6           | 353.6                         | 1.87                          | 1.13                         | 1.69                        |
| 10,975.0                            | 65.73              | 4.51           | 10,725.7                    | 366.9           | 423.8           | 381.4                         | 10.11                         | 10.10                        | -0.58                       |
| 11,006.0                            | 70.10              | 4.84           | 10,737.3                    | 395.5           | 426.2           | 410.1                         | 14.13                         | 14.10                        | 1.06                        |
| 11,038.0                            | 72.44              | 4.58           | 10,747.6                    | 425.7           | 428.7           | 440.4                         | 7.35                          | 7.31                         | -0.81                       |
| 11,069.0                            | 75.16              | 2.86           | 10,756.2                    | 455.4           | 430.6           | 470.1                         | 10.26                         | 8.77                         | -5.55                       |
| 11,092.1                            | 76.62              | 1.83           | 10,761.9                    | 477.8           | 431.5           | 492.5                         | 7.64                          | 6.31                         | -4.45                       |
| FTP @ 11092.1'MD, 330'FSL & 310'FWL |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 11,101.0                            | 77.18              | 1.44           | 10,763.9                    | 486.5           | 431.8           | 501.2                         | 7.64                          | 6.32                         | -4.41                       |
| 11,132.0                            | 77.64              | 1.34           | 10,770.6                    | 516.7           | 432.5           | 531.5                         | 1.52                          | 1.48                         | -0.32                       |
| 11,164.0                            | 81.11              | 0.24           | 10,776.5                    | 548.2           | 432.9           | 562.9                         | 11.36                         | 10.84                        | -3.44                       |
| 11,196.0                            | 84.49              | 359.49         | 10,780.5                    | 579.9           | 432.9           | 594.6                         | 10.82                         | 10.56                        | -2.34                       |
| 11,227.0                            | 85.31              | 359.04         | 10,783.3                    | 610.8           | 432.5           | 625.5                         | 3.01                          | 2.65                         | -1.45                       |
| 11,259.0                            | 88.36              | 0.25           | 10,785.1                    | 642.7           | 432.3           | 657.4                         | 10.25                         | 9.53                         | 3.78                        |
| 11,291.0                            | 89.67              | 0.65           | 10,785.6                    | 674.7           | 432.5           | 689.4                         | 4.28                          | 4.09                         | 1.25                        |
| 11,420.0                            | 91.49              | 359.78         | 10,784.3                    | 803.7           | 433.0           | 818.3                         | 1.56                          | 1.41                         | -0.67                       |
| 11,514.0                            | 90.99              | 0.46           | 10,782.3                    | 897.7           | 433.2           | 912.2                         | 0.90                          | -0.53                        | 0.72                        |
| 11,608.0                            | 90.30              | 1.88           | 10,781.2                    | 991.6           | 435.1           | 1,006.2                       | 1.68                          | -0.73                        | 1.51                        |
| 11,703.0                            | 91.38              | 1.28           | 10,779.8                    | 1,086.6         | 437.7           | 1,101.2                       | 1.30                          | 1.14                         | -0.63                       |
| 11,797.0                            | 92.69              | 0.44           | 10,776.5                    | 1,180.5         | 439.1           | 1,195.1                       | 1.66                          | 1.39                         | -0.89                       |
| 11,892.0                            | 92.20              | 0.66           | 10,772.4                    | 1,275.4         | 440.1           | 1,290.0                       | 0.57                          | -0.52                        | 0.23                        |
| 11,986.0                            | 90.37              | 1.80           | 10,770.3                    | 1,369.4         | 442.1           | 1,383.9                       | 2.29                          | -1.95                        | 1.21                        |
| 12,081.0                            | 91.30              | 1.53           | 10,768.9                    | 1,464.3         | 444.8           | 1,478.9                       | 1.02                          | 0.98                         | -0.28                       |
| 12,176.0                            | 92.87              | 0.89           | 10,765.5                    | 1,559.2         | 446.8           | 1,573.9                       | 1.78                          | 1.65                         | -0.67                       |
| 12,270.0                            | 90.88              | 359.82         | 10,762.4                    | 1,653.2         | 447.4           | 1,667.8                       | 2.40                          | -2.12                        | -1.14                       |
| 12,364.0                            | 90.23              | 358.09         | 10,761.5                    | 1,747.2         | 445.7           | 1,761.6                       | 1.97                          | -0.69                        | -1.84                       |
| 12,458.0                            | 91.25              | 357.43         | 10,760.3                    | 1,841.1         | 442.0           | 1,855.4                       | 1.29                          | 1.09                         | -0.70                       |
| 12,552.0                            | 92.82              | 357.12         | 10,756.9                    | 1,934.9         | 437.6           | 1,949.0                       | 1.70                          | 1.67                         | -0.33                       |
| 12,647.0                            | 92.68              | 358.52         | 10,752.4                    | 2,029.7         | 434.0           | 2,043.6                       | 1.48                          | -0.15                        | 1.47                        |
| 12,742.0                            | 90.98              | 358.53         | 10,749.4                    | 2,124.6         | 431.5           | 2,138.4                       | 1.79                          | -1.79                        | 0.01                        |
| 12,836.0                            | 90.46              | 359.25         | 10,748.2                    | 2,218.6         | 429.7           | 2,232.2                       | 0.94                          | -0.55                        | 0.77                        |
| 12,929.0                            | 91.71              | 358.85         | 10,746.4                    | 2,311.6         | 428.2           | 2,325.1                       | 1.41                          | 1.34                         | -0.43                       |
| 13,024.0                            | 91.32              | 359.41         | 10,743.9                    | 2,406.5         | 426.7           | 2,419.9                       | 0.72                          | -0.41                        | 0.59                        |
| 13,118.0                            | 91.88              | 358.98         | 10,741.3                    | 2,500.5         | 425.4           | 2,513.8                       | 0.75                          | 0.60                         | -0.46                       |
| 13,213.0                            | 93.47              | 358.68         | 10,736.8                    | 2,595.4         | 423.5           | 2,608.5                       | 1.70                          | 1.67                         | -0.32                       |



**Intrepid**  
Survey Report



|                  |                                              |                                     |                                  |
|------------------|----------------------------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | Concho Resources, Inc.                       | <b>Local Co-ordinate Reference:</b> | Well Huckleberry State Com #505H |
| <b>Project:</b>  | Lea County, NM (NAD 27 NME)                  | <b>TVD Reference:</b>               | KB @ 3741.1usft (Latshaw 44)     |
| <b>Site:</b>     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | <b>MD Reference:</b>                | KB @ 3741.1usft (Latshaw 44)     |
| <b>Well:</b>     | Huckleberry State Com #505H                  | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWB                                          | <b>Database:</b>                    | EDM 5000.15 Single User Db       |

**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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,306.0              | 92.38           | 359.96      | 10,732.1              | 2,688.2      | 422.4        | 2,701.3                 | 1.81                    | -1.17                  | 1.38                  |
| 13,400.0              | 90.43           | 0.51        | 10,729.8              | 2,782.2      | 422.7        | 2,795.2                 | 2.16                    | -2.07                  | 0.59                  |
| 13,493.0              | 91.74           | 359.91      | 10,728.0              | 2,875.2      | 423.1        | 2,888.2                 | 1.55                    | 1.41                   | -0.65                 |
| 13,588.0              | 93.33           | 358.73      | 10,723.8              | 2,970.1      | 422.0        | 2,983.0                 | 2.08                    | 1.67                   | -1.24                 |
| 13,682.0              | 93.64           | 359.87      | 10,718.1              | 3,063.9      | 420.8        | 3,076.7                 | 1.25                    | 0.33                   | 1.21                  |
| 13,777.0              | 90.31           | 0.56        | 10,714.8              | 3,158.8      | 421.2        | 3,171.6                 | 3.58                    | -3.51                  | 0.73                  |
| 13,872.0              | 91.70           | 0.08        | 10,713.2              | 3,253.8      | 421.7        | 3,266.5                 | 1.55                    | 1.46                   | -0.51                 |
| 13,966.0              | 90.76           | 359.93      | 10,711.2              | 3,347.8      | 421.7        | 3,360.4                 | 1.01                    | -1.00                  | -0.16                 |
| 14,061.0              | 91.52           | 359.45      | 10,709.3              | 3,442.8      | 421.2        | 3,455.3                 | 0.95                    | 0.80                   | -0.51                 |
| 14,155.0              | 90.00           | 0.70        | 10,708.0              | 3,536.8      | 421.3        | 3,549.3                 | 2.09                    | -1.62                  | 1.33                  |
| 14,249.0              | 89.47           | 1.52        | 10,708.5              | 3,630.7      | 423.1        | 3,643.3                 | 1.04                    | -0.56                  | 0.87                  |
| 14,343.0              | 91.15           | 1.16        | 10,707.9              | 3,724.7      | 425.3        | 3,737.3                 | 1.83                    | 1.79                   | -0.38                 |
| 14,438.0              | 93.11           | 0.15        | 10,704.4              | 3,819.6      | 426.4        | 3,832.2                 | 2.32                    | 2.06                   | -1.06                 |
| 14,532.0              | 91.87           | 359.87      | 10,700.3              | 3,913.5      | 426.4        | 3,926.0                 | 1.35                    | -1.32                  | -0.30                 |
| 14,626.0              | 88.92           | 358.83      | 10,699.7              | 4,007.5      | 425.4        | 4,019.9                 | 3.33                    | -3.14                  | -1.11                 |
| 14,719.0              | 89.94           | 358.24      | 10,700.6              | 4,100.5      | 423.0        | 4,112.7                 | 1.27                    | 1.10                   | -0.63                 |
| 14,813.0              | 92.00           | 357.37      | 10,699.0              | 4,194.4      | 419.4        | 4,206.4                 | 2.38                    | 2.19                   | -0.93                 |
| 14,908.0              | 93.29           | 358.30      | 10,694.6              | 4,289.2      | 415.8        | 4,301.1                 | 1.67                    | 1.36                   | 0.98                  |
| 15,003.0              | 92.57           | 358.40      | 10,689.8              | 4,384.1      | 413.1        | 4,395.8                 | 0.77                    | -0.76                  | 0.11                  |
| 15,097.0              | 94.14           | 358.40      | 10,684.3              | 4,477.9      | 410.5        | 4,489.4                 | 1.67                    | 1.67                   | 0.00                  |
| 15,192.0              | 94.01           | 358.71      | 10,677.5              | 4,572.6      | 408.1        | 4,584.0                 | 0.35                    | -0.14                  | 0.33                  |
| 15,287.0              | 92.02           | 358.86      | 10,672.5              | 4,667.4      | 406.1        | 4,678.7                 | 2.10                    | -2.09                  | 0.16                  |
| 15,381.0              | 90.15           | 359.60      | 10,670.8              | 4,761.4      | 404.8        | 4,772.6                 | 2.14                    | -1.99                  | 0.79                  |
| 15,476.0              | 90.78           | 0.06        | 10,670.0              | 4,856.4      | 404.5        | 4,867.5                 | 0.82                    | 0.66                   | 0.48                  |
| 15,571.0              | 91.33           | 359.10      | 10,668.2              | 4,951.4      | 403.8        | 4,962.4                 | 1.16                    | 0.58                   | -1.01                 |
| 15,666.0              | 90.65           | 359.79      | 10,666.6              | 5,046.4      | 402.9        | 5,057.3                 | 1.02                    | -0.72                  | 0.73                  |
| 15,761.0              | 91.83           | 359.60      | 10,664.5              | 5,141.3      | 402.4        | 5,152.2                 | 1.26                    | 1.24                   | -0.20                 |
| 15,855.0              | 91.35           | 359.21      | 10,661.9              | 5,235.3      | 401.4        | 5,246.1                 | 0.66                    | -0.51                  | -0.41                 |
| 15,950.0              | 90.08           | 359.81      | 10,660.7              | 5,330.3      | 400.6        | 5,341.0                 | 1.48                    | -1.34                  | 0.63                  |
| 16,044.0              | 90.32           | 359.64      | 10,660.4              | 5,424.3      | 400.1        | 5,434.9                 | 0.31                    | 0.26                   | -0.18                 |
| 16,138.0              | 92.02           | 359.20      | 10,658.5              | 5,518.2      | 399.2        | 5,528.8                 | 1.87                    | 1.81                   | -0.47                 |
| 16,233.0              | 91.44           | 359.30      | 10,655.6              | 5,613.2      | 398.0        | 5,623.6                 | 0.62                    | -0.61                  | 0.11                  |
| 16,327.0              | 90.62           | 359.55      | 10,653.9              | 5,707.2      | 397.0        | 5,717.5                 | 0.91                    | -0.87                  | 0.27                  |
| 16,422.0              | 89.84           | 0.53        | 10,653.6              | 5,802.2      | 397.1        | 5,812.5                 | 1.32                    | -0.82                  | 1.03                  |
| 16,517.0              | 88.14           | 1.80        | 10,655.2              | 5,897.1      | 399.0        | 5,907.4                 | 2.23                    | -1.79                  | 1.34                  |
| 16,612.0              | 88.55           | 2.11        | 10,658.0              | 5,992.0      | 402.2        | 6,002.4                 | 0.54                    | 0.43                   | 0.33                  |
| 16,707.0              | 90.25           | 1.85        | 10,659.0              | 6,087.0      | 405.5        | 6,097.4                 | 1.81                    | 1.79                   | -0.27                 |
| 16,802.0              | 88.73           | 1.46        | 10,659.8              | 6,181.9      | 408.3        | 6,192.4                 | 1.65                    | -1.60                  | -0.41                 |
| 16,896.0              | 89.41           | 1.22        | 10,661.3              | 6,275.9      | 410.5        | 6,286.4                 | 0.77                    | 0.72                   | -0.26                 |
| 16,990.0              | 88.14           | 1.82        | 10,663.3              | 6,369.8      | 413.0        | 6,380.3                 | 1.49                    | -1.35                  | 0.64                  |
| 17,085.0              | 92.46           | 359.08      | 10,662.9              | 6,464.8      | 413.7        | 6,475.3                 | 5.38                    | 4.55                   | -2.88                 |
| 17,180.0              | 93.19           | 359.31      | 10,658.2              | 6,559.7      | 412.4        | 6,570.0                 | 0.81                    | 0.77                   | 0.24                  |
| 17,275.0              | 91.36           | 357.99      | 10,654.4              | 6,654.6      | 410.1        | 6,664.8                 | 2.37                    | -1.93                  | -1.39                 |



**Intrepid**  
Survey Report



|                  |                                              |                                     |                                  |
|------------------|----------------------------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | Concho Resources, Inc.                       | <b>Local Co-ordinate Reference:</b> | Well Huckleberry State Com #505H |
| <b>Project:</b>  | Lea County, NM (NAD 27 NME)                  | <b>TVD Reference:</b>               | KB @ 3741.1usft (Latshaw 44)     |
| <b>Site:</b>     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | <b>MD Reference:</b>                | KB @ 3741.1usft (Latshaw 44)     |
| <b>Well:</b>     | Huckleberry State Com #505H                  | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWB                                          | <b>Database:</b>                    | EDM 5000.15 Single User Db       |

**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) |
|-------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 17,369.0                            | 89.42           | 357.12      | 10,653.8              | 6,748.5      | 406.1        | 6,758.5                 | 2.26                    | -2.06                  | -0.93                 |
| 17,464.0                            | 88.60           | 357.14      | 10,655.4              | 6,843.3      | 401.4        | 6,853.2                 | 0.86                    | -0.86                  | 0.02                  |
| 17,558.0                            | 89.78           | 357.02      | 10,656.7              | 6,937.2      | 396.6        | 6,946.8                 | 1.26                    | 1.26                   | -0.13                 |
| 17,652.0                            | 87.70           | 358.55      | 10,658.8              | 7,031.1      | 393.0        | 7,040.5                 | 2.75                    | -2.21                  | 1.63                  |
| 17,747.0                            | 88.98           | 358.24      | 10,661.5              | 7,126.0      | 390.3        | 7,135.3                 | 1.39                    | 1.35                   | -0.33                 |
| 17,841.0                            | 90.74           | 357.97      | 10,661.8              | 7,220.0      | 387.2        | 7,229.1                 | 1.89                    | 1.87                   | -0.29                 |
| 17,935.0                            | 90.95           | 358.32      | 10,660.4              | 7,313.9      | 384.1        | 7,322.8                 | 0.43                    | 0.22                   | 0.37                  |
| 18,029.0                            | 89.46           | 358.68      | 10,660.1              | 7,407.9      | 381.7        | 7,416.7                 | 1.63                    | -1.59                  | 0.38                  |
| 18,124.0                            | 89.53           | 358.26      | 10,660.9              | 7,502.8      | 379.1        | 7,511.5                 | 0.45                    | 0.07                   | -0.44                 |
| 18,218.0                            | 89.16           | 359.04      | 10,662.0              | 7,596.8      | 376.9        | 7,605.3                 | 0.92                    | -0.39                  | 0.83                  |
| 18,312.0                            | 88.19           | 0.82        | 10,664.1              | 7,690.8      | 376.8        | 7,699.2                 | 2.16                    | -1.03                  | 1.89                  |
| 18,407.0                            | 89.23           | 0.59        | 10,666.3              | 7,785.7      | 378.0        | 7,794.2                 | 1.12                    | 1.09                   | -0.24                 |
| 18,501.0                            | 88.14           | 1.83        | 10,668.4              | 7,879.7      | 380.0        | 7,888.1                 | 1.76                    | -1.16                  | 1.32                  |
| 18,595.0                            | 90.82           | 0.44        | 10,669.3              | 7,973.6      | 381.8        | 7,982.1                 | 3.21                    | 2.85                   | -1.48                 |
| 18,690.0                            | 92.24           | 1.23        | 10,666.8              | 8,068.6      | 383.2        | 8,077.0                 | 1.71                    | 1.49                   | 0.83                  |
| 18,785.0                            | 91.48           | 1.99        | 10,663.7              | 8,163.5      | 385.9        | 8,172.0                 | 1.13                    | -0.80                  | 0.80                  |
| 18,879.0                            | 89.27           | 3.32        | 10,663.1              | 8,257.4      | 390.2        | 8,266.0                 | 2.74                    | -2.35                  | 1.41                  |
| 18,974.0                            | 88.10           | 1.55        | 10,665.2              | 8,352.3      | 394.3        | 8,360.9                 | 2.23                    | -1.23                  | -1.86                 |
| 19,068.0                            | 88.13           | 0.91        | 10,668.3              | 8,446.2      | 396.3        | 8,454.9                 | 0.68                    | 0.03                   | -0.68                 |
| 19,162.0                            | 90.57           | 1.22        | 10,669.4              | 8,540.2      | 398.0        | 8,548.9                 | 2.62                    | 2.60                   | 0.33                  |
| 19,257.0                            | 87.95           | 1.65        | 10,670.6              | 8,635.1      | 400.4        | 8,643.8                 | 2.79                    | -2.76                  | 0.45                  |
| 19,351.0                            | 88.68           | 0.11        | 10,673.4              | 8,729.1      | 401.9        | 8,737.8                 | 1.81                    | 0.78                   | -1.64                 |
| 19,445.0                            | 88.28           | 359.20      | 10,675.9              | 8,823.0      | 401.3        | 8,831.7                 | 1.06                    | -0.43                  | -0.97                 |
| 19,538.0                            | 89.36           | 358.19      | 10,677.8              | 8,916.0      | 399.2        | 8,924.5                 | 1.59                    | 1.16                   | -1.09                 |
| 19,632.0                            | 90.52           | 357.35      | 10,677.9              | 9,009.9      | 395.5        | 9,018.2                 | 1.52                    | 1.23                   | -0.89                 |
| 19,726.0                            | 91.13           | 357.46      | 10,676.5              | 9,103.8      | 391.3        | 9,111.9                 | 0.66                    | 0.65                   | 0.12                  |
| 19,820.0                            | 90.66           | 358.13      | 10,675.1              | 9,197.7      | 387.6        | 9,205.7                 | 0.87                    | -0.50                  | 0.71                  |
| 19,914.0                            | 91.05           | 358.25      | 10,673.7              | 9,291.7      | 384.7        | 9,299.4                 | 0.43                    | 0.41                   | 0.13                  |
| 20,007.0                            | 90.86           | 358.94      | 10,672.1              | 9,384.6      | 382.4        | 9,392.3                 | 0.77                    | -0.20                  | 0.74                  |
| 20,101.0                            | 90.08           | 358.75      | 10,671.3              | 9,478.6      | 380.5        | 9,486.1                 | 0.85                    | -0.83                  | -0.20                 |
| 20,200.0                            | 91.76           | 359.20      | 10,669.8              | 9,577.6      | 378.7        | 9,585.0                 | 1.76                    | 1.70                   | 0.45                  |
| 20,294.0                            | 89.45           | 1.14        | 10,668.8              | 9,671.6      | 379.0        | 9,678.9                 | 3.21                    | -2.46                  | 2.06                  |
| 20,389.0                            | 88.19           | 2.02        | 10,670.7              | 9,766.5      | 381.6        | 9,773.9                 | 1.62                    | -1.33                  | 0.93                  |
| 20,484.0                            | 89.41           | 2.12        | 10,672.7              | 9,861.4      | 385.1        | 9,868.8                 | 1.29                    | 1.28                   | 0.11                  |
| 20,577.0                            | 88.12           | 1.11        | 10,674.7              | 9,954.4      | 387.7        | 9,961.8                 | 1.76                    | -1.39                  | -1.09                 |
| 20,672.0                            | 87.39           | 359.18      | 10,678.4              | 10,049.3     | 387.9        | 10,056.7                | 2.17                    | -0.77                  | -2.03                 |
| 20,766.0                            | 88.53           | 358.35      | 10,681.8              | 10,143.2     | 385.9        | 10,150.5                | 1.50                    | 1.21                   | -0.88                 |
| 20,861.0                            | 88.98           | 357.76      | 10,683.8              | 10,238.1     | 382.7        | 10,245.2                | 0.78                    | 0.47                   | -0.62                 |
| 20,955.0                            | 89.87           | 356.68      | 10,684.8              | 10,332.0     | 378.1        | 10,338.9                | 1.49                    | 0.95                   | -1.15                 |
| 20,995.2                            | 89.99           | 356.33      | 10,684.8              | 10,372.1     | 375.7        | 10,378.9                | 0.93                    | 0.29                   | -0.88                 |
| LTP @ 20995.2'MD, 330'FNL & 332'FWL |                 |             |                       |              |              |                         |                         |                        |                       |
| 21,049.0                            | 90.14           | 355.85      | 10,684.8              | 10,425.8     | 372.0        | 10,432.4                | 0.93                    | 0.29                   | -0.88                 |
| 21,068.0                            | 90.35           | 355.68      | 10,684.7              | 10,444.7     | 370.6        | 10,451.3                | 1.42                    | 1.11                   | -0.89                 |
| LAST SVY                            |                 |             |                       |              |              |                         |                         |                        |                       |

|                  |                                              |                                     |                                  |
|------------------|----------------------------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | Concho Resources, Inc.                       | <b>Local Co-ordinate Reference:</b> | Well Huckleberry State Com #505H |
| <b>Project:</b>  | Lea County, NM (NAD 27 NME)                  | <b>TVD Reference:</b>               | KB @ 3741.1usft (Latshaw 44)     |
| <b>Site:</b>     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | <b>MD Reference:</b>                | KB @ 3741.1usft (Latshaw 44)     |
| <b>Well:</b>     | Huckleberry State Com #505H                  | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWB                                          | <b>Database:</b>                    | EDM 5000.15 Single User Db       |

**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) |
|------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 21,125.0                                       | 90.35           | 355.68      | 10,684.4              | 10,501.6     | 366.3        | 10,508.0                | 0.00                    | 0.00                   | 0.00                  |
| Projection to TD @ 21125'MD, 200'FNL & 324'FWL |                 |             |                       |              |              |                         |                         |                        |                       |

**Design Targets**

| Target Name                                                                                            | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
|--------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|
| - hit/miss target                                                                                      |               |              |            |              |              |                 |                |                  |                   |
| - Shape                                                                                                |               |              |            |              |              |                 |                |                  |                   |
| 4700'VS (Huckleberry                                                                                   | 0.00          | 0.00         | 10,658.0   | 4,688.5      | 412.4        | 535,352.50      | 737,535.33     | 32° 28' 9.983 N  | 103° 33' 47.294 W |
| - actual wellpath misses target center by 15.4usft at 15308.3usft MD (10671.9 TVD, 4688.7 N, 405.7 E)  |               |              |            |              |              |                 |                |                  |                   |
| - Point                                                                                                |               |              |            |              |              |                 |                |                  |                   |
| WP#1 (Huckleberry S                                                                                    | -1.76         | 359.54       | 10,658.0   | 5,177.9      | 408.5        | 535,841.90      | 737,531.41     | 32° 28' 14.826 N | 103° 33' 47.299 W |
| - actual wellpath misses target center by 8.4usft at 15797.7usft MD (10663.4 TVD, 5178.0 N, 402.1 E)   |               |              |            |              |              |                 |                |                  |                   |
| - Rectangle (sides W60.0 H4,700.0 D30.0)                                                               |               |              |            |              |              |                 |                |                  |                   |
| LTP (Huckleberry Sta                                                                                   | 0.00          | 0.00         | 10,678.0   | 10,372.0     | 367.0        | 541,036.00      | 737,489.90     | 32° 29' 6.225 N  | 103° 33' 47.345 W |
| - actual wellpath misses target center by 11.0usft at 20995.7usft MD (10684.8 TVD, 10372.6 N, 375.6 E) |               |              |            |              |              |                 |                |                  |                   |
| - Point                                                                                                |               |              |            |              |              |                 |                |                  |                   |
| PBHL (Huckleberry SI                                                                                   | 0.23          | 359.54       | 10,678.0   | 10,502.0     | 365.9        | 541,166.00      | 737,488.80     | 32° 29' 7.511 N  | 103° 33' 47.347 W |
| - actual wellpath misses target center by 6.4usft at 21125.0usft MD (10684.4 TVD, 10501.6 N, 366.3 E)  |               |              |            |              |              |                 |                |                  |                   |
| - Rectangle (sides W60.0 H5,324.3 D30.0)                                                               |               |              |            |              |              |                 |                |                  |                   |
| FTP (Huckleberry Sta                                                                                   | 0.00          | 0.00         | 10,778.0   | 477.8        | 445.7        | 531,141.80      | 737,568.60     | 32° 27' 28.315 N | 103° 33' 47.260 W |
| - actual wellpath misses target center by 21.1usft at 11096.2usft MD (10762.8 TVD, 481.7 N, 431.6 E)   |               |              |            |              |              |                 |                |                  |                   |
| - Point                                                                                                |               |              |            |              |              |                 |                |                  |                   |

**Formations**

| Measured Depth (usft) | Vertical Depth (usft) | Name                | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------|-----------------------|---------------------|-----------|---------|-------------------|
| 1,801.4               | 1,801.0               | Rustler             |           |         |                   |
| 1,895.5               | 1,895.0               | TOS                 |           |         |                   |
| 3,539.9               | 3,535.0               | BOS / Tansill       |           |         |                   |
| 3,735.2               | 3,730.0               | Yates               |           |         |                   |
| 3,803.3               | 3,798.0               | Seven Rivers        |           |         |                   |
| 3,961.7               | 3,956.0               | Capitan Reef        |           |         |                   |
| 5,368.8               | 5,353.0               | Base of Reef (BLCN) |           |         |                   |
| 5,827.7               | 5,803.0               | CYCN                |           |         |                   |
| 7,246.6               | 7,220.0               | BYCN                |           |         |                   |
| 8,833.6               | 8,806.0               | Bone Spring (BSGL)  |           |         |                   |
| 9,281.9               | 9,254.0               | U Avalon Sh         |           |         |                   |
| 9,421.9               | 9,394.0               | L Avalon Sh         |           |         |                   |
| 9,921.1               | 9,893.0               | B Avalon Sh         |           |         |                   |
| 10,079.2              | 10,051.0              | FBSG_sand           |           |         |                   |
| 10,728.7              | 10,601.0              | SBSG_sand           |           |         |                   |



|                  |                                              |                                     |                                  |
|------------------|----------------------------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | Concho Resources, Inc.                       | <b>Local Co-ordinate Reference:</b> | Well Huckleberry State Com #505H |
| <b>Project:</b>  | Lea County, NM (NAD 27 NME)                  | <b>TVD Reference:</b>               | KB @ 3741.1usft (Latshaw 44)     |
| <b>Site:</b>     | (Huckleberry State Com) Sec-27_T-21-S_R-33-E | <b>MD Reference:</b>                | KB @ 3741.1usft (Latshaw 44)     |
| <b>Well:</b>     | Huckleberry State Com #505H                  | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWB                                          | <b>Database:</b>                    | EDM 5000.15 Single User Db       |

**Design Annotations**

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                                        |
|-----------------------------|-----------------------------|-------------------|-----------------|------------------------------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                                |
| 11,092.1                    | 10,761.9                    | 477.8             | 431.5           | FTP @ 11092.1'MD, 330'FSL & 310'FWL            |
| 20,995.2                    | 10,684.8                    | 10,372.1          | 375.7           | LTP @ 20995.2'MD, 330'FNL & 332'FWL            |
| 21,068.0                    | 10,684.7                    | 10,444.7          | 370.6           | LAST SVY                                       |
| 21,125.0                    | 10,684.4                    | 10,501.6          | 366.3           | Projection to TD @ 21125'MD, 200'FNL & 324'FWL |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|