

**HOBBS OCD**  
**OCT 04 2019**  
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**CENTENNIAL RESOURCE  
DEVELOPMENT, LLC**

**LEA COUNTY, NM (NAD 83 - UTM ZONE 13 - TRUE)**  
**SE SW SEC. 3 T21S R34E N.M.P.H**  
**ASADERO 3 STATE COM 502H**  
**29 July, 2019**

**Survey: FINAL SURVEYS**



# Survey Report



|                  |                                   |                                     |                                 |
|------------------|-----------------------------------|-------------------------------------|---------------------------------|
| <b>Company:</b>  | CENTENNIAL RESOURCE DEVELOPME     | <b>Local Co-ordinate Reference:</b> | Well ASADERO 3 STATE COM 502H   |
| <b>Project:</b>  | LEA COUNTY, NM (NAD 83 - UTM ZONE | <b>TVD Reference:</b>               | KB 26.5 @ 3718.50usft (H&P 650) |
| <b>Site:</b>     | SE SW SEC. 3 T21S R34E N.M.P.H    | <b>MD Reference:</b>                | KB 26.5 @ 3718.50usft (H&P 650) |
| <b>Well:</b>     | ASADERO 3 STATE COM 502H          | <b>North Reference:</b>             | True                            |
| <b>Wellbore:</b> | JOB # 2019-394-650                | <b>Survey Calculation Method:</b>   | Minimum Curvature               |
| <b>Design:</b>   | FINAL SURVEYS                     | <b>Database:</b>                    | Database 1                      |

|                    |                                                |                             |                |
|--------------------|------------------------------------------------|-----------------------------|----------------|
| <b>Project</b>     | LEA COUNTY, NM (NAD 83 - UTM ZONE 13 - TRUE)   |                             |                |
| <b>Map System:</b> | Universal Transverse Mercator (US Survey Feet) | <b>System Datum:</b>        | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983                      |                             |                |
| <b>Map Zone:</b>   | Zone 13N (108 W to 102 W)                      | Using geodetic scale factor |                |

|                              |                                |                     |                    |                          |             |
|------------------------------|--------------------------------|---------------------|--------------------|--------------------------|-------------|
| <b>Site</b>                  | SE SW SEC. 3 T21S R34E N.M.P.H |                     |                    |                          |             |
| <b>Site Position:</b>        |                                | <b>Northing:</b>    | 11,801,402.21 usft | <b>Latitude:</b>         | 32.501544   |
| <b>From:</b>                 | Map                            | <b>Easting:</b>     | 2,114,933.87 usft  | <b>Longitude:</b>        | -103.460406 |
| <b>Position Uncertainty:</b> | 0.00 usft                      | <b>Slot Radius:</b> | 1.10ft             | <b>Grid Convergence:</b> | 0.83 °      |

|                             |                          |                            |                  |                      |                   |             |
|-----------------------------|--------------------------|----------------------------|------------------|----------------------|-------------------|-------------|
| <b>Well</b>                 | ASADERO 3 STATE COM 502H |                            |                  |                      |                   |             |
| <b>Well Position</b>        | +N/-S                    | 0.00 usft                  | <b>Northing:</b> | 11,801,401.62 usft   | <b>Latitude:</b>  | 32.501544   |
|                             | +E/-W                    | 0.00 usft                  | <b>Easting:</b>  | 2,114,903.89 usft    | <b>Longitude:</b> | -103.460503 |
| <b>Position Uncertainty</b> | 0.00 usft                | <b>Wellhead Elevation:</b> | usft             | <b>Ground Level:</b> | 3,692.00 usft     |             |

|                  |                    |                    |                        |                      |                            |
|------------------|--------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | JOB # 2019-394-650 |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b>  | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015           | 04/06/2019         | 6.71                   | 60.31                | 47,910                     |

|                          |                                |                     |                     |                      |      |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| <b>Design</b>            | FINAL SURVEYS                  |                     |                     |                      |      |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |      |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>       | ACTUAL              | <b>Tie On Depth:</b> | 0.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |      |
|                          | 0.00                           | 0.00                | 0.00                | 356.30               |      |

|                       |                  |                                    |                  |                                            |  |
|-----------------------|------------------|------------------------------------|------------------|--------------------------------------------|--|
| <b>Survey Program</b> | Date 29/07/2019  |                                    |                  |                                            |  |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>           | <b>Tool Name</b> | <b>Description</b>                         |  |
| 159.00                | 17,847.00        | FINAL SURVEYS (JOB # 2019-394-650) | MWD+IFR1+MS      | OWSG MWD + IFR1 + Multi-Station Correction |  |

| Survey                |                 |             |                       |                     |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|---------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 3,718.50            | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 159.00                | 1.70            | 202.90      | 158.98                | 3,559.52            | -2.17        | -0.92        | -2.11                   | 1.07                    | 1.07                   | 0.00                  |
| 250.00                | 1.70            | 213.10      | 249.94                | 3,468.56            | -4.55        | -2.18        | -4.40                   | 0.33                    | 0.00                   | 11.21                 |
| 341.00                | 2.40            | 200.40      | 340.88                | 3,377.62            | -7.46        | -3.58        | -7.22                   | 0.91                    | 0.77                   | -13.96                |
| 432.00                | 2.50            | 202.00      | 431.80                | 3,286.70            | -11.09       | -4.99        | -10.74                  | 0.13                    | 0.11                   | 1.76                  |
| 523.00                | 2.40            | 205.20      | 522.71                | 3,195.79            | -14.65       | -6.54        | -14.20                  | 0.19                    | -0.11                  | 3.52                  |
| 614.00                | 1.20            | 179.30      | 613.67                | 3,104.83            | -17.33       | -7.34        | -16.82                  | 1.56                    | -1.32                  | -28.46                |
| 705.00                | 0.50            | 172.50      | 704.66                | 3,013.84            | -18.68       | -7.28        | -18.17                  | 0.78                    | -0.77                  | -7.47                 |
| 795.00                | 0.40            | 53.30       | 794.65                | 2,923.85            | -18.88       | -6.98        | -18.39                  | 0.86                    | -0.11                  | -132.44               |
| 886.00                | 0.80            | 37.30       | 885.65                | 2,832.85            | -18.18       | -6.34        | -17.74                  | 0.47                    | 0.44                   | -17.58                |
| 977.00                | 0.90            | 84.90       | 976.64                | 2,741.86            | -17.61       | -5.24        | -17.24                  | 0.76                    | 0.11                   | 52.31                 |
| 1,068.00              | 1.50            | 70.70       | 1,067.62              | 2,650.88            | -17.16       | -3.40        | -16.90                  | 0.73                    | 0.66                   | -15.60                |
| 1,159.00              | 1.10            | 67.90       | 1,158.60              | 2,559.90            | -16.44       | -1.47        | -16.31                  | 0.44                    | -0.44                  | -3.08                 |

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| <b>Well:</b>     | ASADERO 3 STATE COM 502H          | <b>North Reference:</b>             | True                            |
| <b>Wellbore:</b> | JOB # 2019-394-650                | <b>Survey Calculation Method:</b>   | Minimum Curvature               |
| <b>Design:</b>   | FINAL SURVEYS                     | <b>Database:</b>                    | Database 1                      |

## Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | Subsea<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) |
|-----------------------------|--------------------|----------------|-----------------------------|---------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 1,250.00                    | 1.10               | 70.70          | 1,249.58                    | 2,468.92                  | -15.82          | 0.16            | -15.80                        | 0.06                          | 0.00                         | 3.08                        |
| 1,341.00                    | 1.00               | 101.50         | 1,340.57                    | 2,377.93                  | -15.69          | 1.77            | -15.77                        | 0.62                          | -0.11                        | 33.85                       |
| 1,432.00                    | 1.00               | 83.20          | 1,431.55                    | 2,286.95                  | -15.75          | 3.33            | -15.93                        | 0.35                          | 0.00                         | -20.11                      |
| 1,526.00                    | 0.90               | 96.00          | 1,525.54                    | 2,192.96                  | -15.73          | 4.88            | -16.01                        | 0.25                          | -0.11                        | 13.62                       |
| 1,650.00                    | 1.10               | 135.20         | 1,649.52                    | 2,068.98                  | -16.68          | 6.69            | -17.07                        | 0.56                          | 0.16                         | 31.61                       |
| 1,744.00                    | 1.10               | 124.80         | 1,743.50                    | 1,975.00                  | -17.83          | 8.06            | -18.32                        | 0.21                          | 0.00                         | -11.06                      |
| 1,790.00                    | 0.60               | 127.50         | 1,789.50                    | 1,929.00                  | -18.23          | 8.62            | -18.75                        | 1.09                          | -1.09                        | 5.87                        |
| 1,849.00                    | 0.42               | 123.06         | 1,848.50                    | 1,870.00                  | -18.54          | 9.04            | -19.08                        | 0.31                          | -0.31                        | -7.53                       |
| <b>SURFACE CASING</b>       |                    |                |                             |                           |                 |                 |                               |                               |                              |                             |
| 1,856.00                    | 0.35               | 125.62         | 1,855.50                    | 1,863.00                  | -18.56          | 9.08            | -19.11                        | 1.00                          | -0.97                        | 36.50                       |
| 1,912.00                    | 0.24               | 267.00         | 1,911.50                    | 1,807.00                  | -18.67          | 9.11            | -19.22                        | 1.00                          | -0.20                        | 252.47                      |
| 2,006.00                    | 1.02               | 267.00         | 2,005.49                    | 1,713.01                  | -18.73          | 8.07            | -19.21                        | 0.83                          | 0.83                         | 0.00                        |
| 2,100.00                    | 0.69               | 272.39         | 2,099.48                    | 1,619.02                  | -18.75          | 6.67            | -19.14                        | 0.36                          | -0.35                        | 5.73                        |
| 2,193.00                    | 0.34               | 279.83         | 2,192.48                    | 1,526.02                  | -18.67          | 5.84            | -19.01                        | 0.38                          | -0.38                        | 8.00                        |
| 2,287.00                    | 0.11               | 286.85         | 2,286.47                    | 1,432.03                  | -18.60          | 5.48            | -18.92                        | 0.25                          | -0.24                        | 7.47                        |
| 2,382.00                    | 0.16               | 263.49         | 2,381.47                    | 1,337.03                  | -18.59          | 5.26            | -18.89                        | 0.08                          | 0.05                         | -24.59                      |
| 2,476.00                    | 0.10               | 208.92         | 2,475.47                    | 1,243.03                  | -18.68          | 5.09            | -18.97                        | 0.14                          | -0.06                        | -58.05                      |
| 2,570.00                    | 0.27               | 250.02         | 2,569.47                    | 1,149.03                  | -18.82          | 4.84            | -19.10                        | 0.22                          | 0.18                         | 43.72                       |
| 2,664.00                    | 1.98               | 255.00         | 2,663.45                    | 1,055.05                  | -19.32          | 3.07            | -19.48                        | 1.82                          | 1.82                         | 5.30                        |
| 2,758.00                    | 3.43               | 260.65         | 2,757.35                    | 961.15                    | -20.20          | -1.28           | -20.07                        | 1.57                          | 1.54                         | 6.01                        |
| 2,852.00                    | 5.03               | 263.20         | 2,851.09                    | 867.41                    | -21.14          | -8.14           | -20.57                        | 1.71                          | 1.70                         | 2.71                        |
| 2,946.00                    | 6.07               | 272.75         | 2,944.65                    | 773.85                    | -21.39          | -17.20          | -20.24                        | 1.48                          | 1.11                         | 10.16                       |
| 3,040.00                    | 6.85               | 270.95         | 3,038.05                    | 680.45                    | -21.06          | -27.77          | -19.22                        | 0.86                          | 0.83                         | -1.91                       |
| 3,134.00                    | 7.33               | 268.97         | 3,131.33                    | 587.17                    | -21.07          | -39.37          | -18.49                        | 0.57                          | 0.51                         | -2.11                       |
| 3,228.00                    | 6.62               | 268.13         | 3,224.63                    | 493.87                    | -21.36          | -50.78          | -18.04                        | 0.76                          | -0.76                        | -0.89                       |
| 3,322.00                    | 5.83               | 264.99         | 3,318.08                    | 400.42                    | -21.95          | -60.95          | -17.98                        | 0.91                          | -0.84                        | -3.34                       |
| 3,416.00                    | 5.61               | 259.63         | 3,411.61                    | 306.89                    | -23.20          | -70.23          | -18.62                        | 0.61                          | -0.23                        | -5.70                       |
| 3,510.00                    | 7.62               | 255.41         | 3,504.98                    | 213.52                    | -25.59          | -80.78          | -20.33                        | 2.20                          | 2.14                         | -4.49                       |
| 3,604.00                    | 8.47               | 253.24         | 3,598.06                    | 120.44                    | -29.16          | -93.44          | -23.07                        | 0.96                          | 0.90                         | -2.31                       |
| 3,698.00                    | 8.04               | 251.65         | 3,691.08                    | 27.42                     | -33.23          | -106.31         | -26.30                        | 0.52                          | -0.46                        | -1.69                       |
| 3,792.00                    | 7.38               | 249.41         | 3,784.23                    | -65.73                    | -37.42          | -118.20         | -29.72                        | 0.77                          | -0.70                        | -2.38                       |
| 3,886.00                    | 6.48               | 247.67         | 3,877.54                    | -159.04                   | -41.56          | -128.76         | -33.17                        | 0.98                          | -0.96                        | -1.85                       |
| 3,980.00                    | 6.64               | 246.97         | 3,970.93                    | -252.43                   | -45.70          | -138.67         | -36.66                        | 0.19                          | 0.17                         | -0.74                       |
| 4,074.00                    | 8.90               | 247.06         | 4,064.06                    | -345.56                   | -50.66          | -150.36         | -40.85                        | 2.40                          | 2.40                         | 0.10                        |
| 4,168.00                    | 10.52              | 248.85         | 4,156.71                    | -438.21                   | -56.59          | -165.07         | -45.82                        | 1.75                          | 1.72                         | 1.90                        |
| 4,262.00                    | 9.69               | 250.60         | 4,249.25                    | -530.75                   | -62.31          | -180.53         | -50.54                        | 0.94                          | -0.88                        | 1.86                        |
| 4,356.00                    | 9.23               | 251.22         | 4,341.97                    | -623.47                   | -67.37          | -195.13         | -54.64                        | 0.50                          | -0.49                        | 0.66                        |
| 4,450.00                    | 8.88               | 251.66         | 4,434.80                    | -716.30                   | -72.08          | -209.15         | -58.44                        | 0.38                          | -0.37                        | 0.47                        |
| 4,545.00                    | 8.42               | 253.50         | 4,528.72                    | -810.22                   | -76.36          | -222.78         | -61.83                        | 0.57                          | -0.48                        | 1.94                        |
| 4,639.00                    | 8.16               | 253.80         | 4,621.74                    | -903.24                   | -80.18          | -235.79         | -64.80                        | 0.28                          | -0.28                        | 0.32                        |
| 4,733.00                    | 7.76               | 253.60         | 4,714.83                    | -996.33                   | -83.83          | -248.28         | -67.64                        | 0.43                          | -0.43                        | -0.21                       |
| 4,827.00                    | 7.16               | 252.42         | 4,808.04                    | -1,089.54                 | -87.39          | -259.95         | -70.44                        | 0.66                          | -0.64                        | -1.26                       |
| 4,921.00                    | 7.29               | 251.33         | 4,901.29                    | -1,182.79                 | -91.07          | -271.19         | -73.39                        | 0.20                          | 0.14                         | -1.16                       |
| 5,014.00                    | 9.14               | 253.40         | 4,993.33                    | -1,274.83                 | -95.07          | -283.86         | -76.56                        | 2.01                          | 1.99                         | 2.23                        |
| 5,108.00                    | 10.30              | 253.08         | 5,085.98                    | -1,367.48                 | -99.65          | -299.05         | -80.15                        | 1.24                          | 1.23                         | -0.34                       |
| 5,203.00                    | 9.60               | 253.35         | 5,179.55                    | -1,461.05                 | -104.39         | -314.77         | -83.87                        | 0.74                          | -0.74                        | 0.28                        |
| 5,297.00                    | 9.27               | 252.86         | 5,272.28                    | -1,553.78                 | -108.87         | -329.51         | -87.38                        | 0.36                          | -0.35                        | -0.52                       |
| 5,391.00                    | 8.75               | 254.53         | 5,365.12                    | -1,646.62                 | -113.01         | -343.64         | -90.60                        | 0.62                          | -0.55                        | 1.78                        |
| 5,485.00                    | 8.46               | 255.45         | 5,458.06                    | -1,739.56                 | -116.65         | -357.22         | -93.36                        | 0.34                          | -0.31                        | 0.98                        |
| 5,579.00                    | 8.52               | 256.58         | 5,551.03                    | -1,832.53                 | -120.00         | -370.69         | -95.84                        | 0.19                          | 0.06                         | 1.20                        |
| <b>ICP</b>                  |                    |                |                             |                           |                 |                 |                               |                               |                              |                             |
| 5,673.00                    | 8.94               | 258.16         | 5,643.94                    | -1,925.44                 | -123.12         | -384.61         | -98.05                        | 0.51                          | 0.45                         | 1.68                        |
| 5,773.00                    | 8.90               | 259.27         | 5,742.73                    | -2,024.23                 | -126.15         | -399.82         | -100.10                       | 0.18                          | -0.04                        | 1.11                        |

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## Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | Subsea<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) |
|-----------------------------|--------------------|----------------|-----------------------------|---------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 5,840.00                    | 8.92               | 259.38         | 5,808.92                    | -2,090.42                 | -128.07         | -410.01         | -101.36                       | 0.04                          | 0.03                         | 0.16                        |
| 5,934.00                    | 8.11               | 260.76         | 5,901.89                    | -2,183.39                 | -130.48         | -423.72         | -102.88                       | 0.89                          | -0.86                        | 1.47                        |
| 6,028.00                    | 6.59               | 259.95         | 5,995.11                    | -2,276.61                 | -132.49         | -435.58         | -104.11                       | 1.62                          | -1.62                        | -0.86                       |
| 6,122.00                    | 6.39               | 258.68         | 6,088.51                    | -2,370.01                 | -134.46         | -446.02         | -105.40                       | 0.26                          | -0.21                        | -1.35                       |
| 6,216.00                    | 5.40               | 251.21         | 6,182.01                    | -2,463.51                 | -136.91         | -455.33         | -107.25                       | 1.33                          | -1.05                        | -7.95                       |
| 6,310.00                    | 3.82               | 242.05         | 6,275.71                    | -2,557.21                 | -139.80         | -462.29         | -109.69                       | 1.85                          | -1.68                        | -9.74                       |
| 6,405.00                    | 3.17               | 239.50         | 6,370.53                    | -2,652.03                 | -142.62         | -467.35         | -112.17                       | 0.70                          | -0.68                        | -2.68                       |
| 6,499.00                    | 2.56               | 246.24         | 6,464.41                    | -2,745.91                 | -144.78         | -471.51         | -114.06                       | 0.74                          | -0.65                        | 7.17                        |
| 6,593.00                    | 1.10               | 280.05         | 6,558.36                    | -2,839.86                 | -145.47         | -474.32         | -114.57                       | 1.87                          | -1.55                        | 35.97                       |
| 6,687.00                    | 0.98               | 343.08         | 6,652.35                    | -2,933.85                 | -144.54         | -475.44         | -113.57                       | 1.16                          | -0.13                        | 67.05                       |
| 6,781.00                    | 1.08               | 345.05         | 6,746.34                    | -3,027.84                 | -142.92         | -475.90         | -111.92                       | 0.11                          | 0.11                         | 2.10                        |
| 6,875.00                    | 0.89               | 333.61         | 6,840.32                    | -3,121.82                 | -141.41         | -476.45         | -110.38                       | 0.29                          | -0.20                        | -12.17                      |
| 6,969.00                    | 0.88               | 315.19         | 6,934.31                    | -3,215.81                 | -140.24         | -477.29         | -109.16                       | 0.30                          | -0.01                        | -19.60                      |
| 7,063.00                    | 0.48               | 303.43         | 7,028.30                    | -3,309.80                 | -139.51         | -478.13         | -108.38                       | 0.45                          | -0.43                        | -12.51                      |
| 7,157.00                    | 0.44               | 301.58         | 7,122.30                    | -3,403.80                 | -139.11         | -478.76         | -107.93                       | 0.05                          | -0.04                        | -1.97                       |
| 7,251.00                    | 0.25               | 259.24         | 7,216.30                    | -3,497.80                 | -138.96         | -479.27         | -107.75                       | 0.33                          | -0.20                        | -45.04                      |
| 7,345.00                    | 0.59               | 181.79         | 7,310.30                    | -3,591.80                 | -139.48         | -479.49         | -108.26                       | 0.63                          | 0.36                         | -82.39                      |
| 7,439.00                    | 0.79               | 171.70         | 7,404.29                    | -3,685.79                 | -140.60         | -479.41         | -109.39                       | 0.25                          | 0.21                         | -10.73                      |
| 7,533.00                    | 0.98               | 162.50         | 7,498.28                    | -3,779.78                 | -142.01         | -479.07         | -110.81                       | 0.25                          | 0.20                         | -9.79                       |
| 7,627.00                    | 1.08               | 158.65         | 7,592.26                    | -3,873.76                 | -143.60         | -478.51         | -112.44                       | 0.13                          | 0.11                         | -4.10                       |
| 7,721.00                    | 1.31               | 171.31         | 7,686.24                    | -3,967.74                 | -145.49         | -478.02         | -114.35                       | 0.37                          | 0.24                         | 13.47                       |
| 7,815.00                    | 1.19               | 175.87         | 7,780.22                    | -4,061.72                 | -147.53         | -477.79         | -116.40                       | 0.17                          | -0.13                        | 4.85                        |
| 7,909.00                    | 1.27               | 170.25         | 7,874.20                    | -4,155.70                 | -149.53         | -477.54         | -118.41                       | 0.15                          | 0.09                         | -5.98                       |
| 8,003.00                    | 1.43               | 166.61         | 7,968.17                    | -4,249.67                 | -151.69         | -477.10         | -120.60                       | 0.19                          | 0.17                         | -3.87                       |
| 8,097.00                    | 1.43               | 161.12         | 8,062.15                    | -4,343.65                 | -153.95         | -476.45         | -122.89                       | 0.15                          | 0.00                         | -5.84                       |
| 8,191.00                    | 1.36               | 159.96         | 8,156.12                    | -4,437.62                 | -156.10         | -475.68         | -125.09                       | 0.08                          | -0.07                        | -1.23                       |
| 8,285.00                    | 1.32               | 160.59         | 8,250.09                    | -4,531.59                 | -158.17         | -474.94         | -127.21                       | 0.05                          | -0.04                        | 0.67                        |
| 8,379.00                    | 1.29               | 165.52         | 8,344.07                    | -4,625.57                 | -160.22         | -474.32         | -129.29                       | 0.12                          | -0.03                        | 5.24                        |
| 8,473.00                    | 1.36               | 169.56         | 8,438.04                    | -4,719.54                 | -162.34         | -473.85         | -131.43                       | 0.12                          | 0.07                         | 4.30                        |
| 8,567.00                    | 1.88               | 174.97         | 8,532.00                    | -4,813.50                 | -164.97         | -473.51         | -134.08                       | 0.58                          | 0.55                         | 5.76                        |
| 8,661.00                    | 1.82               | 171.28         | 8,625.96                    | -4,907.46                 | -167.98         | -473.15         | -137.11                       | 0.14                          | -0.06                        | -3.93                       |
| 8,755.00                    | 1.78               | 176.20         | 8,719.91                    | -5,001.41                 | -170.92         | -472.83         | -140.06                       | 0.17                          | -0.04                        | 5.23                        |
| 8,850.00                    | 2.11               | 176.36         | 8,814.85                    | -5,096.35                 | -174.13         | -472.62         | -143.28                       | 0.35                          | 0.35                         | 0.17                        |
| 8,944.00                    | 1.80               | 173.42         | 8,908.80                    | -5,190.30                 | -177.33         | -472.34         | -146.49                       | 0.35                          | -0.33                        | -3.13                       |
| 9,038.00                    | 0.57               | 219.90         | 9,002.78                    | -5,284.28                 | -179.15         | -472.47         | -148.30                       | 1.56                          | -1.31                        | 49.45                       |
| 9,132.00                    | 1.01               | 211.45         | 9,096.77                    | -5,378.27                 | -180.22         | -473.20         | -149.32                       | 0.48                          | 0.47                         | -8.99                       |
| 9,226.00                    | 1.06               | 190.26         | 9,190.75                    | -5,472.25                 | -181.78         | -473.79         | -150.84                       | 0.41                          | 0.05                         | -22.54                      |
| 9,320.00                    | 1.28               | 175.27         | 9,284.74                    | -5,566.24                 | -183.68         | -473.86         | -152.73                       | 0.40                          | 0.23                         | -15.95                      |
| 9,414.00                    | 1.88               | 164.37         | 9,378.70                    | -5,660.20                 | -186.21         | -473.36         | -155.29                       | 0.71                          | 0.64                         | -11.60                      |
| 9,508.00                    | 1.31               | 157.24         | 9,472.66                    | -5,754.16                 | -188.69         | -472.53         | -157.81                       | 0.64                          | -0.61                        | -7.59                       |
| 9,602.00                    | 1.24               | 149.15         | 9,566.64                    | -5,848.14                 | -190.55         | -471.59         | -159.74                       | 0.21                          | -0.07                        | -8.61                       |
| <b>KOP</b>                  |                    |                |                             |                           |                 |                 |                               |                               |                              |                             |
| 9,667.00                    | 1.20               | 135.07         | 9,631.62                    | -5,913.12                 | -191.64         | -470.75         | -160.87                       | 0.46                          | -0.06                        | -21.66                      |
| 9,694.00                    | 1.18               | 133.29         | 9,658.62                    | -5,940.12                 | -192.03         | -470.35         | -161.29                       | 0.16                          | -0.07                        | -6.59                       |
| 9,789.00                    | 4.72               | 344.44         | 9,753.53                    | -6,035.03                 | -188.93         | -470.68         | -158.18                       | 6.07                          | 3.73                         | -156.68                     |
| 9,836.00                    | 9.62               | 353.05         | 9,800.15                    | -6,081.65                 | -183.17         | -471.68         | -152.36                       | 10.64                         | 10.43                        | 18.32                       |
| 9,883.00                    | 13.35              | 356.60         | 9,846.20                    | -6,127.70                 | -173.85         | -472.47         | -143.01                       | 8.07                          | 7.94                         | 7.55                        |
| 9,977.00                    | 20.56              | 357.54         | 9,936.05                    | -6,217.55                 | -146.49         | -473.83         | -115.62                       | 7.68                          | 7.67                         | 1.00                        |
| 10,071.00                   | 23.57              | 359.11         | 10,023.16                   | -6,304.66                 | -111.20         | -474.83         | -80.34                        | 3.26                          | 3.20                         | 1.67                        |
| 10,103.00                   | 24.36              | 1.73           | 10,052.40                   | -6,333.90                 | -98.20          | -474.73         | -67.38                        | 4.14                          | 2.47                         | 8.19                        |
| 10,134.00                   | 25.57              | 2.26           | 10,080.50                   | -6,362.00                 | -85.13          | -474.27         | -54.36                        | 3.97                          | 3.90                         | 1.71                        |
| 10,165.00                   | 26.49              | 2.20           | 10,108.36                   | -6,389.86                 | -71.54          | -473.74         | -40.83                        | 2.97                          | 2.97                         | -0.19                       |
| 10,197.00                   | 27.10              | 3.50           | 10,136.92                   | -6,418.42                 | -57.13          | -473.02         | -26.50                        | 2.64                          | 1.91                         | 4.06                        |

## Survey Report



|                  |                                   |                                     |                                 |
|------------------|-----------------------------------|-------------------------------------|---------------------------------|
| <b>Company:</b>  | CENTENNIAL RESOURCE DEVELOPME     | <b>Local Co-ordinate Reference:</b> | Well ASADERO 3 STATE COM 502H   |
| <b>Project:</b>  | LEA COUNTY, NM (NAD 83 - UTM ZONE | <b>TVD Reference:</b>               | KB 26.5 @ 3718.50usft (H&P 650) |
| <b>Site:</b>     | SE SW SEC. 3 T21S R34E N.M.P.H    | <b>MD Reference:</b>                | KB 26.5 @ 3718.50usft (H&P 650) |
| <b>Well:</b>     | ASADERO 3 STATE COM 502H          | <b>North Reference:</b>             | True                            |
| <b>Wellbore:</b> | JOB # 2019-394-650                | <b>Survey Calculation Method:</b>   | Minimum Curvature               |
| <b>Design:</b>   | FINAL SURVEYS                     | <b>Database:</b>                    | Database 1                      |

## Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | Subsea<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) |
|-----------------------------|--------------------|----------------|-----------------------------|---------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 10,228.00                   | 28.06              | 3.63           | 10,164.40                   | -6,445.90                 | -42.80          | -472.13         | -12.26                        | 3.10                          | 3.10                         | 0.42                        |
| 10,260.00                   | 30.49              | 2.85           | 10,192.31                   | -6,473.81                 | -27.18          | -471.25         | 3.27                          | 7.69                          | 7.59                         | -2.44                       |
| 10,291.00                   | 35.84              | 1.53           | 10,218.25                   | -6,499.75                 | -10.24          | -470.62         | 20.14                         | 17.41                         | 17.26                        | -4.26                       |
| 10,323.00                   | 37.85              | 4.98           | 10,243.86                   | -6,525.36                 | 8.91            | -469.51         | 39.18                         | 9.01                          | 6.28                         | 10.78                       |
| 10,354.00                   | 39.78              | 4.92           | 10,268.02                   | -6,549.52                 | 28.27           | -467.84         | 58.39                         | 6.23                          | 6.23                         | -0.19                       |
| 10,386.00                   | 43.80              | 4.76           | 10,291.87                   | -6,573.37                 | 49.51           | -466.04         | 79.47                         | 12.57                         | 12.56                        | -0.50                       |
| 10,417.00                   | 48.13              | 3.58           | 10,313.41                   | -6,594.91                 | 71.73           | -464.43         | 101.54                        | 14.23                         | 13.97                        | -3.81                       |
| 10,449.00                   | 52.36              | 2.26           | 10,333.87                   | -6,615.37                 | 96.29           | -463.18         | 125.97                        | 13.59                         | 13.22                        | -4.12                       |
| 10,480.00                   | 57.91              | 1.03           | 10,351.59                   | -6,633.09                 | 121.71          | -462.46         | 151.29                        | 18.20                         | 17.90                        | -3.97                       |
| 10,512.00                   | 63.53              | 359.92         | 10,367.23                   | -6,648.73                 | 149.61          | -462.24         | 179.11                        | 17.82                         | 17.56                        | -3.47                       |
| 10,543.00                   | 67.16              | 359.32         | 10,380.16                   | -6,661.66                 | 177.78          | -462.43         | 207.24                        | 11.84                         | 11.71                        | -1.94                       |
| 10,575.00                   | 72.07              | 359.69         | 10,391.31                   | -6,672.81                 | 207.76          | -462.69         | 237.18                        | 15.38                         | 15.34                        | 1.16                        |
| 10,606.00                   | 76.97              | 359.86         | 10,399.58                   | -6,681.08                 | 237.63          | -462.80         | 266.99                        | 15.82                         | 15.81                        | 0.55                        |
| 10,638.00                   | 79.31              | 359.66         | 10,406.15                   | -6,687.65                 | 268.94          | -462.93         | 298.25                        | 7.34                          | 7.31                         | -0.62                       |
| 10,669.00                   | 83.66              | 358.83         | 10,410.74                   | -6,692.24                 | 299.59          | -463.34         | 328.86                        | 14.28                         | 14.03                        | -2.68                       |
| <b>HZ LANDING PT</b>        |                    |                |                             |                           |                 |                 |                               |                               |                              |                             |
| 10,701.00                   | 87.46              | 359.11         | 10,413.22                   | -6,694.72                 | 331.48          | -463.91         | 360.72                        | 11.91                         | 11.87                        | 0.87                        |
| 10,732.00                   | 88.09              | 358.98         | 10,414.42                   | -6,695.92                 | 362.46          | -464.43         | 391.66                        | 2.08                          | 2.03                         | -0.42                       |
| 10,848.00                   | 90.69              | 357.93         | 10,415.66                   | -6,697.16                 | 478.40          | -467.56         | 507.56                        | 2.42                          | 2.24                         | -0.91                       |
| 10,943.00                   | 91.07              | 359.18         | 10,414.20                   | -6,695.70                 | 573.35          | -469.95         | 602.47                        | 1.38                          | 0.40                         | 1.32                        |
| 11,037.00                   | 91.07              | 358.96         | 10,412.44                   | -6,693.94                 | 667.32          | -471.48         | 696.35                        | 0.23                          | 0.00                         | -0.23                       |
| 11,132.00                   | 91.01              | 358.78         | 10,410.72                   | -6,692.22                 | 762.29          | -473.35         | 791.24                        | 0.20                          | -0.06                        | -0.19                       |
| 11,226.00                   | 91.08              | 358.80         | 10,409.00                   | -6,690.50                 | 856.25          | -475.34         | 885.13                        | 0.08                          | 0.07                         | 0.02                        |
| 11,321.00                   | 90.98              | 359.95         | 10,407.30                   | -6,688.80                 | 951.23          | -476.37         | 979.98                        | 1.21                          | -0.11                        | 1.21                        |
| 11,415.00                   | 91.16              | 359.41         | 10,405.54                   | -6,687.04                 | 1,045.21        | -476.90         | 1,073.80                      | 0.61                          | 0.19                         | -0.57                       |
| 11,510.00                   | 91.77              | 359.62         | 10,403.11                   | -6,684.61                 | 1,140.18        | -477.70         | 1,168.62                      | 0.68                          | 0.64                         | 0.22                        |
| 11,604.00                   | 91.74              | 359.42         | 10,400.23                   | -6,681.73                 | 1,234.13        | -478.49         | 1,262.42                      | 0.22                          | -0.03                        | -0.21                       |
| 11,698.00                   | 91.72              | 359.52         | 10,397.40                   | -6,678.90                 | 1,328.08        | -479.36         | 1,356.24                      | 0.11                          | -0.02                        | 0.11                        |
| 11,793.00                   | 91.78              | 359.30         | 10,394.49                   | -6,675.99                 | 1,423.03        | -480.33         | 1,451.05                      | 0.24                          | 0.06                         | -0.23                       |
| 11,887.00                   | 90.07              | 359.24         | 10,392.98                   | -6,674.48                 | 1,517.01        | -481.53         | 1,544.91                      | 1.82                          | -1.82                        | -0.06                       |
| 11,981.00                   | 88.64              | 359.08         | 10,394.04                   | -6,675.54                 | 1,610.99        | -482.91         | 1,638.79                      | 1.53                          | -1.52                        | -0.17                       |
| 12,075.00                   | 88.98              | 359.53         | 10,395.99                   | -6,677.49                 | 1,704.96        | -484.05         | 1,732.64                      | 0.60                          | 0.36                         | 0.48                        |
| 12,169.00                   | 89.28              | 359.79         | 10,397.42                   | -6,678.92                 | 1,798.95        | -484.61         | 1,826.46                      | 0.42                          | 0.32                         | 0.28                        |
| 12,263.00                   | 88.86              | 359.48         | 10,398.94                   | -6,680.44                 | 1,892.94        | -485.21         | 1,920.29                      | 0.56                          | -0.45                        | -0.33                       |
| 12,357.00                   | 88.88              | 359.60         | 10,400.79                   | -6,682.29                 | 1,986.91        | -485.96         | 2,014.12                      | 0.13                          | 0.02                         | 0.13                        |
| 12,451.00                   | 90.07              | 359.03         | 10,401.66                   | -6,683.16                 | 2,080.90        | -487.08         | 2,107.99                      | 1.40                          | 1.27                         | -0.61                       |
| 12,545.00                   | 88.69              | 359.31         | 10,402.67                   | -6,684.17                 | 2,174.88        | -488.45         | 2,201.86                      | 1.50                          | -1.47                        | 0.30                        |
| 12,639.00                   | 88.84              | 0.12           | 10,404.70                   | -6,686.20                 | 2,268.86        | -488.91         | 2,295.67                      | 0.88                          | 0.16                         | 0.86                        |
| 12,734.00                   | 89.80              | 359.34         | 10,405.83                   | -6,687.33                 | 2,363.85        | -489.36         | 2,390.49                      | 1.30                          | 1.01                         | -0.82                       |
| 12,828.00                   | 89.39              | 359.04         | 10,406.49                   | -6,687.99                 | 2,457.84        | -490.69         | 2,484.37                      | 0.54                          | -0.44                        | -0.32                       |
| 12,922.00                   | 89.69              | 359.67         | 10,407.25                   | -6,688.75                 | 2,551.83        | -491.75         | 2,578.24                      | 0.74                          | 0.32                         | 0.67                        |
| 13,016.00                   | 90.21              | 359.90         | 10,407.33                   | -6,688.83                 | 2,645.83        | -492.10         | 2,672.06                      | 0.60                          | 0.55                         | 0.24                        |
| 13,110.00                   | 90.11              | 0.88           | 10,407.07                   | -6,688.57                 | 2,739.82        | -491.46         | 2,765.82                      | 1.05                          | -0.11                        | 1.04                        |
| 13,203.00                   | 90.26              | 1.73           | 10,406.76                   | -6,688.26                 | 2,832.80        | -489.34         | 2,858.47                      | 0.93                          | 0.16                         | 0.91                        |
| 13,297.00                   | 90.39              | 1.20           | 10,406.23                   | -6,687.73                 | 2,926.77        | -486.94         | 2,952.08                      | 0.58                          | 0.14                         | -0.56                       |
| 13,390.00                   | 90.49              | 0.86           | 10,405.52                   | -6,687.02                 | 3,019.75        | -485.27         | 3,044.76                      | 0.38                          | 0.11                         | -0.37                       |
| 13,484.00                   | 90.24              | 0.40           | 10,404.92                   | -6,686.42                 | 3,113.74        | -484.23         | 3,138.49                      | 0.56                          | -0.27                        | -0.49                       |
| 13,578.00                   | 90.60              | 0.83           | 10,404.23                   | -6,685.73                 | 3,207.73        | -483.23         | 3,232.22                      | 0.60                          | 0.38                         | 0.46                        |
| 13,672.00                   | 90.42              | 0.98           | 10,403.39                   | -6,684.89                 | 3,301.72        | -481.74         | 3,325.92                      | 0.25                          | -0.19                        | 0.16                        |
| 13,766.00                   | 90.84              | 0.58           | 10,402.36                   | -6,683.86                 | 3,395.70        | -480.46         | 3,419.62                      | 0.62                          | 0.45                         | -0.43                       |
| 13,860.00                   | 89.99              | 358.90         | 10,401.68                   | -6,683.18                 | 3,489.69        | -480.89         | 3,513.45                      | 2.00                          | -0.90                        | -1.79                       |
| 13,954.00                   | 90.31              | 0.07           | 10,401.43                   | -6,682.93                 | 3,583.69        | -481.73         | 3,607.30                      | 1.29                          | 0.34                         | 1.24                        |
| 14,048.00                   | 90.92              | 0.49           | 10,400.42                   | -6,681.92                 | 3,677.68        | -481.27         | 3,701.07                      | 0.79                          | 0.65                         | 0.45                        |

## Survey Report



|                  |                                   |                                     |                                 |
|------------------|-----------------------------------|-------------------------------------|---------------------------------|
| <b>Company:</b>  | CENTENNIAL RESOURCE DEVELOPME     | <b>Local Co-ordinate Reference:</b> | Well ASADERO 3 STATE COM 502H   |
| <b>Project:</b>  | LEA COUNTY, NM (NAD 83 - UTM ZONE | <b>TVD Reference:</b>               | KB 26.5 @ 3718.50usft (H&P 650) |
| <b>Site:</b>     | SE SW SEC. 3 T21S R34E N.M.P.H    | <b>MD Reference:</b>                | KB 26.5 @ 3718.50usft (H&P 650) |
| <b>Well:</b>     | ASADERO 3 STATE COM 502H          | <b>North Reference:</b>             | True                            |
| <b>Wellbore:</b> | JOB # 2019-394-650                | <b>Survey Calculation Method:</b>   | Minimum Curvature               |
| <b>Design:</b>   | FINAL SURVEYS                     | <b>Database:</b>                    | Database 1                      |

## Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | Subsea<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Bulld<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|---------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 14,142.00                   | 90.70              | 0.68           | 10,399.09                   | -6,680.59                 | 3,771.67        | -480.31         | 3,794.80                      | 0.31                          | -0.23                        | 0.20                        |
| 14,236.00                   | 90.35              | 0.08           | 10,398.23                   | -6,679.73                 | 3,865.66        | -479.69         | 3,888.55                      | 0.74                          | -0.37                        | -0.64                       |
| 14,330.00                   | 90.67              | 0.36           | 10,397.40                   | -6,678.90                 | 3,959.66        | -479.33         | 3,982.33                      | 0.45                          | 0.34                         | 0.30                        |
| 14,424.00                   | 90.18              | 0.49           | 10,396.70                   | -6,678.20                 | 4,053.65        | -478.63         | 4,076.08                      | 0.54                          | -0.52                        | 0.14                        |
| 14,518.00                   | 90.34              | 0.39           | 10,396.27                   | -6,677.77                 | 4,147.65        | -477.91         | 4,169.84                      | 0.20                          | 0.17                         | -0.11                       |
| 14,612.00                   | 89.51              | 0.44           | 10,396.40                   | -6,677.90                 | 4,241.64        | -477.23         | 4,263.59                      | 0.88                          | -0.88                        | 0.05                        |
| 14,707.00                   | 89.81              | 359.80         | 10,396.96                   | -6,678.46                 | 4,336.64        | -477.03         | 4,358.38                      | 0.74                          | 0.32                         | -0.67                       |
| 14,801.00                   | 89.61              | 359.50         | 10,397.44                   | -6,678.94                 | 4,430.64        | -477.60         | 4,452.22                      | 0.38                          | -0.21                        | -0.32                       |
| 14,895.00                   | 89.71              | 359.75         | 10,397.99                   | -6,679.49                 | 4,524.63        | -478.22         | 4,546.06                      | 0.29                          | 0.11                         | 0.27                        |
| 14,990.00                   | 89.64              | 359.35         | 10,398.53                   | -6,680.03                 | 4,619.63        | -478.97         | 4,640.90                      | 0.43                          | -0.07                        | -0.42                       |
| 15,084.00                   | 89.50              | 359.07         | 10,399.24                   | -6,680.74                 | 4,713.62        | -480.26         | 4,734.78                      | 0.33                          | -0.15                        | -0.30                       |
| 15,178.00                   | 89.36              | 358.63         | 10,400.17                   | -6,681.67                 | 4,807.59        | -482.15         | 4,828.68                      | 0.49                          | -0.15                        | -0.47                       |
| 15,272.00                   | 89.52              | 359.19         | 10,401.09                   | -6,682.59                 | 4,901.57        | -483.94         | 4,922.58                      | 0.62                          | 0.17                         | 0.60                        |
| 15,366.00                   | 89.46              | 359.14         | 10,401.93                   | -6,683.43                 | 4,995.56        | -485.31         | 5,016.46                      | 0.08                          | -0.06                        | -0.05                       |
| 15,460.00                   | 89.44              | 358.94         | 10,402.83                   | -6,684.33                 | 5,089.54        | -486.88         | 5,110.35                      | 0.21                          | -0.02                        | -0.21                       |
| 15,555.00                   | 89.66              | 359.26         | 10,403.58                   | -6,685.08                 | 5,184.53        | -488.37         | 5,205.23                      | 0.41                          | 0.23                         | 0.34                        |
| 15,649.00                   | 89.59              | 359.78         | 10,404.19                   | -6,685.69                 | 5,278.52        | -489.16         | 5,299.08                      | 0.56                          | -0.07                        | 0.55                        |
| 15,743.00                   | 89.51              | 359.78         | 10,404.93                   | -6,686.43                 | 5,372.52        | -489.52         | 5,392.90                      | 0.09                          | -0.09                        | 0.00                        |
| 15,837.00                   | 89.50              | 359.97         | 10,405.74                   | -6,687.24                 | 5,466.51        | -489.73         | 5,486.72                      | 0.20                          | -0.01                        | 0.20                        |
| 15,931.00                   | 89.69              | 359.83         | 10,406.41                   | -6,687.91                 | 5,560.51        | -489.89         | 5,580.53                      | 0.25                          | 0.20                         | -0.15                       |
| 16,025.00                   | 89.85              | 359.68         | 10,406.78                   | -6,688.28                 | 5,654.51        | -490.29         | 5,674.36                      | 0.23                          | 0.17                         | -0.16                       |
| 16,119.00                   | 89.76              | 359.75         | 10,407.10                   | -6,688.60                 | 5,748.51        | -490.76         | 5,768.19                      | 0.12                          | -0.10                        | 0.07                        |
| 16,212.00                   | 89.66              | 359.46         | 10,407.57                   | -6,689.07                 | 5,841.50        | -491.40         | 5,861.04                      | 0.33                          | -0.11                        | -0.31                       |
| 16,307.00                   | 89.72              | 359.89         | 10,408.09                   | -6,689.59                 | 5,936.50        | -491.94         | 5,955.87                      | 0.46                          | 0.06                         | 0.45                        |
| 16,401.00                   | 89.82              | 358.28         | 10,408.47                   | -6,689.97                 | 6,030.48        | -493.44         | 6,049.75                      | 1.72                          | 0.11                         | -1.71                       |
| 16,495.00                   | 89.72              | 358.49         | 10,408.84                   | -6,690.34                 | 6,124.45        | -496.09         | 6,143.69                      | 0.25                          | -0.11                        | 0.22                        |
| 16,589.00                   | 89.60              | 0.55           | 10,409.40                   | -6,690.90                 | 6,218.44        | -496.88         | 6,237.54                      | 2.20                          | -0.13                        | 2.19                        |
| 16,683.00                   | 89.85              | 1.24           | 10,409.85                   | -6,691.35                 | 6,312.42        | -495.41         | 6,331.23                      | 0.78                          | 0.27                         | 0.73                        |
| 16,777.00                   | 89.80              | 1.11           | 10,410.14                   | -6,691.64                 | 6,406.40        | -493.48         | 6,424.89                      | 0.15                          | -0.05                        | -0.14                       |
| 16,871.00                   | 89.80              | 1.09           | 10,410.47                   | -6,691.97                 | 6,500.38        | -491.68         | 6,518.56                      | 0.02                          | 0.00                         | -0.02                       |
| 16,966.00                   | 89.82              | 0.97           | 10,410.78                   | -6,692.28                 | 6,595.37        | -489.97         | 6,613.24                      | 0.13                          | 0.02                         | -0.13                       |
| 17,061.00                   | 89.71              | 0.62           | 10,411.17                   | -6,692.67                 | 6,690.36        | -488.65         | 6,707.95                      | 0.39                          | -0.12                        | -0.37                       |
| 17,155.00                   | 89.56              | 0.41           | 10,411.77                   | -6,693.27                 | 6,784.35        | -487.81         | 6,801.69                      | 0.27                          | -0.16                        | -0.22                       |
| 17,249.00                   | 90.00              | 0.51           | 10,412.13                   | -6,693.63                 | 6,878.35        | -487.05         | 6,895.44                      | 0.48                          | 0.47                         | 0.11                        |
| 17,343.00                   | 89.66              | 0.68           | 10,412.41                   | -6,693.91                 | 6,972.34        | -486.08         | 6,989.18                      | 0.40                          | -0.36                        | 0.18                        |
| 17,438.00                   | 89.94              | 0.28           | 10,412.74                   | -6,694.24                 | 7,067.34        | -485.28         | 7,083.92                      | 0.51                          | 0.29                         | -0.42                       |
| 17,532.00                   | 89.91              | 0.68           | 10,412.87                   | -6,694.37                 | 7,161.34        | -484.49         | 7,177.67                      | 0.43                          | -0.03                        | 0.43                        |
| 17,626.00                   | 89.43              | 0.85           | 10,413.41                   | -6,694.91                 | 7,255.32        | -483.24         | 7,271.39                      | 0.54                          | -0.51                        | 0.18                        |
| 17,720.00                   | 89.90              | 0.30           | 10,413.96                   | -6,695.46                 | 7,349.32        | -482.29         | 7,365.12                      | 0.77                          | 0.50                         | -0.59                       |
| LAST SURVEY JULY 28, 2019   |                    |                |                             |                           |                 |                 |                               |                               |                              |                             |
| 17,813.00                   | 89.68              | 0.29           | 10,414.30                   | -6,695.80                 | 7,442.32        | -481.82         | 7,457.90                      | 0.24                          | -0.24                        | -0.01                       |
| ~ CROSS SETBACK             |                    |                |                             |                           |                 |                 |                               |                               |                              |                             |
| 17,838.35                   | 89.68              | 0.29           | 10,414.44                   | -6,695.94                 | 7,467.67        | -481.69         | 7,483.18                      | 0.00                          | 0.00                         | 0.00                        |
| PROJECTION TO TD            |                    |                |                             |                           |                 |                 |                               |                               |                              |                             |
| 17,847.00                   | 89.68              | 0.29           | 10,414.49                   | -6,695.99                 | 7,476.32        | -481.64         | 7,491.81                      | 0.00                          | 0.00                         | 0.00                        |

## Survey Report



|                  |                                   |                                     |                                 |
|------------------|-----------------------------------|-------------------------------------|---------------------------------|
| <b>Company:</b>  | CENTENNIAL RESOURCE DEVELOPME     | <b>Local Co-ordinate Reference:</b> | Well ASADERO 3 STATE COM 502H   |
| <b>Project:</b>  | LEA COUNTY, NM (NAD 83 - UTM ZONE | <b>TVD Reference:</b>               | KB 26.5 @ 3718.50usft (H&P 650) |
| <b>Site:</b>     | SE SW SEC. 3 T21S R34E N.M.P.H    | <b>MD Reference:</b>                | KB 26.5 @ 3718.50usft (H&P 650) |
| <b>Well:</b>     | ASADERO 3 STATE COM 502H          | <b>North Reference:</b>             | True                            |
| <b>Wellbore:</b> | JOB # 2019-394-650                | <b>Survey Calculation Method:</b>   | Minimum Curvature               |
| <b>Design:</b>   | FINAL SURVEYS                     | <b>Database:</b>                    | Database 1                      |

## Targets

## Target Name

| - hit/miss target<br>- Shape                                                                                                                                             | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude  | Longitude   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------|-------------|
| LTP/BHL - ASADERO 3<br>- survey misses target center by 97.44usft at 17837.80usft MD (10414.44 TVD, 7467.12 N, -481.69 E)<br>- Rectangle (sides W7,617.00 H100.00 D0.00) | 0.00             | 0.00            | 10,317.00     | 7,467.67        | -482.73         | 11,808,860.48      | 2,114,313.46      | 32.522069 | -103.462069 |
| FTP - ASADERO 3 STA<br>- survey misses target center by 17.92usft at 10562.83usft MD (10387.37 TVD, 196.24 N, -462.61 E)<br>- Point                                      | 0.00             | 0.00            | 10,382.50     | 197.91          | -479.77         | 11,801,592.55      | 2,114,421.38      | 32.502088 | -103.462059 |
| KOP - ASADERO 3 STA<br>- survey misses target center by 32.64usft at 9848.01usft MD (9811.97 TVD, -181.08 N, -471.91 E)<br>- Point                                       | 0.00             | 0.00            | 9,805.55      | -150.00         | -479.57         | 11,801,244.73      | 2,114,426.60      | 32.501132 | -103.462059 |
| HZ LP - ASADERO 3 S1<br>- survey misses target center by 39.76usft at 10797.51usft MD (10415.77 TVD, 427.94 N, -465.93 E)<br>- Point                                     | 0.00             | 0.00            | 10,378.49     | 427.96          | -479.77         | 11,801,822.55      | 2,114,418.06      | 32.502720 | -103.462059 |
| KOP - ASADERO 3 STA<br>- survey misses target center by 42.82usft at 9740.23usft MD (9704.84 TVD, -191.63 N, -470.07 E)<br>- Point                                       | 0.00             | 0.00            | 9,703.45      | -150.00         | -480.00         | 11,801,244.73      | 2,114,426.17      | 32.501132 | -103.462060 |
| HZ LP - ASADERO 3 S1<br>- survey misses target center by 39.06usft at 10900.44usft MD (10414.93 TVD, 530.81 N, -469.13 E)<br>- Point                                     | 0.00             | 0.00            | 10,377.49     | 529.95          | -480.24         | 11,801,924.51      | 2,114,416.12      | 32.503000 | -103.462061 |

## Survey Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                   |
|-----------------------------|-----------------------------|-------------------|-----------------|---------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                           |
| 1,856.00                    | 1,855.50                    | -18.56            | 9.08            | SURFACE CASING            |
| 5,673.00                    | 5,643.94                    | -123.12           | -384.61         | ICP                       |
| 9,667.00                    | 9,631.62                    | -191.64           | -470.75         | KOP                       |
| 10,701.00                   | 10,413.22                   | 331.48            | -463.91         | HZ LANDING PT             |
| 17,813.00                   | 10,414.30                   | 7,442.32          | -481.82         | LAST SURVEY JULY 28, 2019 |
| 17,838.35                   | 10,414.44                   | 7,467.67          | -481.69         | - CROSS SETBACK           |
| 17,847.00                   | 10,414.49                   | 7,476.32          | -481.64         | PROJECTION TO TD          |

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



Project: LEA COUNTY, NM (NAD 83 - UTM ZONE 13 - TRUE)  
 Site: SE SW SEC. 3 T21S R34E N.M.P.H  
 Well: ASADERO 3 STATE COM 502H  
 Wellbore: JOB # 2019-394-650  
 Design: FINAL SURVEYS

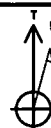


#### SECTION DETAILS

| MD       | Inc   | Asd    | TVD      | +N-S    | +E-W    | Diag | TFace  | VSecl   | Annotation                                   |
|----------|-------|--------|----------|---------|---------|------|--------|---------|----------------------------------------------|
| 1790.00  | 0.60  | 127.50 | 1789.50  | -18.23  | 8.82    | 0.00 | 0.00   | -18.75  | TIE ON TO SURVEYS                            |
| 1856.00  | 0.60  | 127.50 | 1855.50  | -18.65  | 9.17    | 0.00 | 0.00   | -19.21  | PROJ TO BIT                                  |
| 1916.00  | 0.00  | 0.00   | 1915.49  | -18.84  | 9.42    | 1.00 | 180.00 | -19.41  | EOB TO VERTICAL                              |
| 2500.00  | 0.00  | 0.00   | 2499.49  | -18.84  | 9.42    | 0.00 | 0.00   | -19.41  | START NUDGE 1"100R BUR                       |
| 3300.17  | 8.00  | 255.00 | 3297.08  | -33.28  | -44.47  | 1.00 | 255.00 | -30.35  | EOB TO 8" INC                                |
| 6138.62  | 8.00  | 255.00 | 6107.88  | -135.56 | -428.12 | 0.00 | 0.00   | -107.79 | END OF TANGENT                               |
| 6938.79  | 0.00  | 0.00   | 6905.45  | -150.00 | -480.00 | 1.00 | 180.00 | -118.72 | EOB TO VERTICAL                              |
| 9738.79  | 0.00  | 0.00   | 9703.45  | -150.00 | -480.00 | 0.00 | 0.00   | -118.72 | KOP 8.5"100R BUR                             |
| 10801.49 | 90.50 | 359.98 | 10377.49 | 529.95  | -480.24 | 8.50 | 359.98 | 559.83  | HZ LANDING: 832.04R FSL & 1320.47R FWL SEC 3 |
| 17739.48 | 90.50 | 359.98 | 10317.00 | 7467.87 | -482.73 | 0.00 | 0.00   | 7483.26 | BHL: 100R FNL & 1320R FWL SEC 3              |

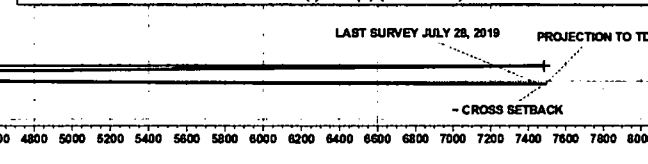
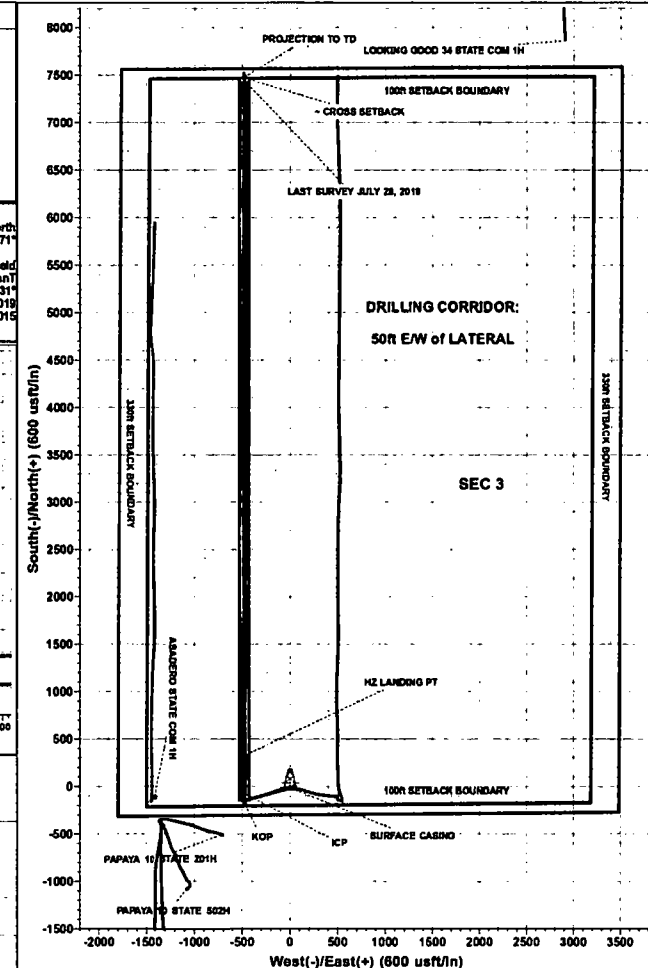
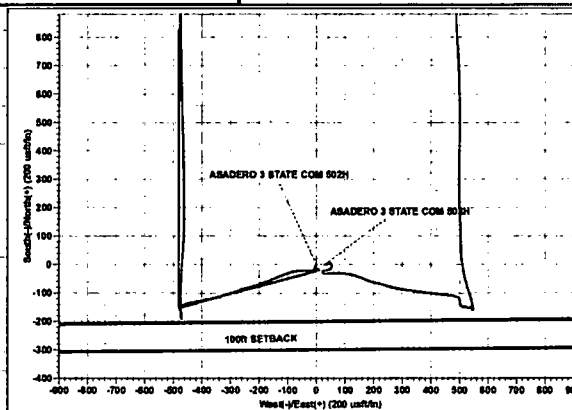
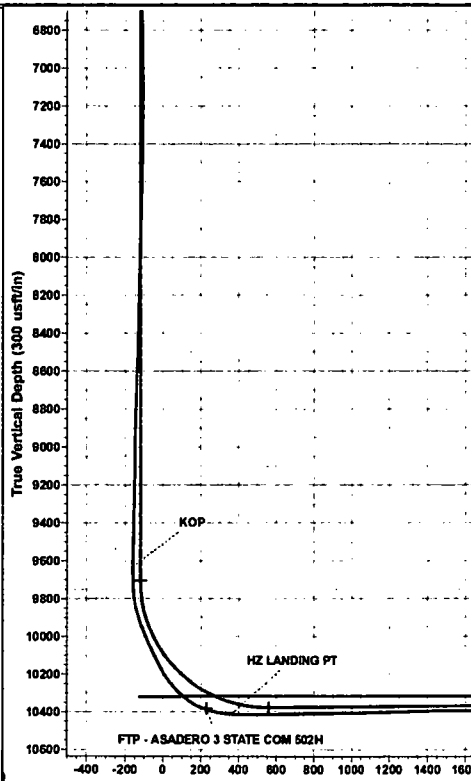
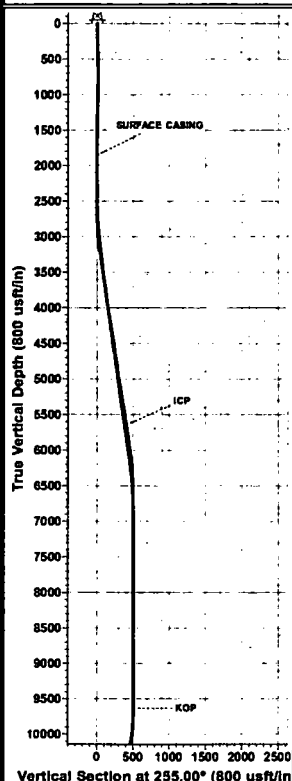
#### WELLBORE TARGET DETAILS (LAT/LONG)

| Name                                | TVD      | +N-S    | +E-W    | Northing    | Easting    | Latitude  | Longitude   |
|-------------------------------------|----------|---------|---------|-------------|------------|-----------|-------------|
| FTP - ASADERO 3 STATE COM 502H      | 10382.80 | 167.91  | -478.77 | 11801592.85 | 2114421.33 | 32.502088 | -103.482029 |
| KOP - ASADERO 3 STATE COM 502H (P2) | 10377.49 | 529.95  | -480.24 | 11801524.51 | 2114416.12 | 32.501132 | -103.482089 |
| KOP - ASADERO 3 STATE COM 502H (P2) | 9703.45  | -130.00 | -480.00 | 11801244.73 | 2114428.17 | 32.501132 | -103.482089 |
| LTP/BHL - ASADERO 3 STATE COM 502H  | 10317.00 | 7467.87 | -482.73 | 11808869.48 | 2114313.48 | 32.522989 | -103.482089 |



Azimuths to True North:  
 Magnetic North: 6.71°

Magnetic Field  
 Strength: 47909.5anT  
 Dip Angle: 60.31°  
 Date: 04/06/2019  
 Model: IGRF2015





**Total Directional**  
Services, LLC  
USA Operations

## **Final MWD Survey Certification**

Lea County, New Mexico

Client: Centennial Resource Development Inc.

Well Name: Asadero 3 State COM 502H

Total Job No: 2019-394-650

API No: 30-025-46064

Start Date: 6/20/2019

End Date: 7/28/2019

Measured Start Depth: 1,797 feet

Measured End Depth: 17,847 feet

Vertical Section from well center at TD: 7,491.81 feet

I, Chris Meredith, certify that; I am employed by Total Directional Services, LLC and we conducted or supervised the taking of these open hole MWD surveys at the request of this client. This data is true, correct, complete and within the limitations of the tool as set forth by Total Directional Services, LLC. I am authorized and qualified to make this report and have reviewed this report and find that it conforms to the principals and procedures as set forth by Total Directional Services, LLC.

Date: 7/28/2019

Signed: *Chris Meredith*