



Samson Resources Company

La Plata County, C.O.

SEC 11-T32N-R7W

Lucero 32-7-11 #2

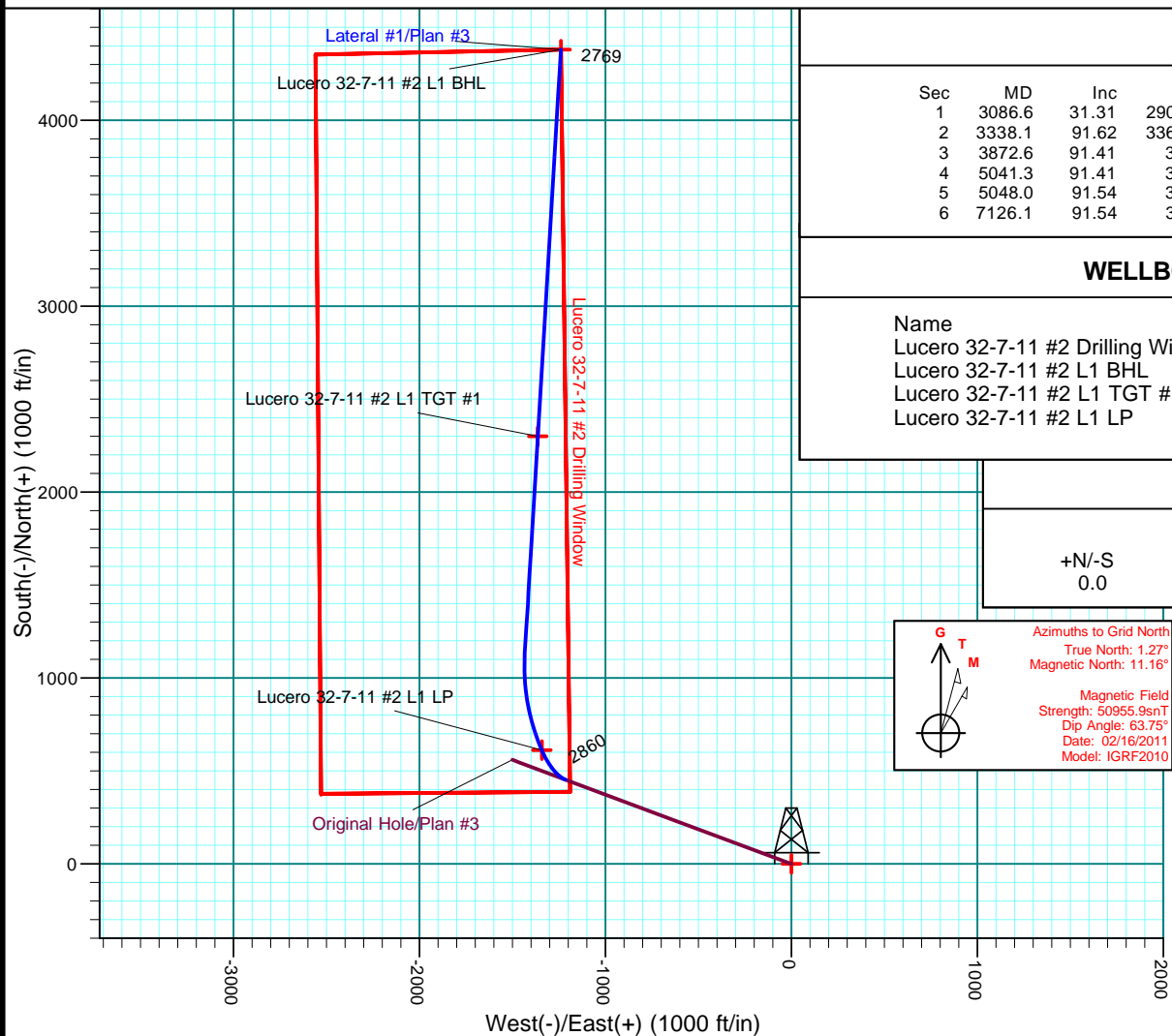
Lateral #1

Plan: Plan #3

Standard Planning Report

25 May, 2011





SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | Vsect | Target |
|-----|--------|-------|--------|--------|--------|---------|-------|-------|--------|-----------------------------|
| 1 | 3086.6 | 31.31 | 290.47 | 2748.8 | 453.4 | -1214.4 | 0.00 | 0.00 | 766.7 | |
| 2 | 3338.1 | 91.62 | 336.69 | 2868.0 | 612.2 | -1341.8 | 28.00 | 50.00 | 954.2 | Lucero 32-7-11 #2 L1 LP |
| 3 | 3872.6 | 91.41 | 3.43 | 2853.7 | 1133.7 | -1433.2 | 5.00 | 90.09 | 1480.9 | |
| 4 | 5041.3 | 91.41 | 3.43 | 2825.0 | 2300.0 | -1363.3 | 0.00 | 0.00 | 2584.2 | Lucero 32-7-11 #2 L1 TGT #1 |
| 5 | 5048.0 | 91.54 | 3.43 | 2824.8 | 2306.7 | -1362.9 | 2.00 | 0.29 | 2590.5 | |
| 6 | 7126.1 | 91.54 | 3.43 | 2769.0 | 4380.3 | -1238.7 | 0.00 | 0.00 | 4552.1 | Lucero 32-7-11 #2 L1 BHL |

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Shape |
|-----------------------------------|--------|--------|---------|------------|------------|---------|
| Lucero 32-7-11 #2 Drilling Window | 2746.0 | 0.0 | 0.0 | 1137241.51 | 2393968.66 | Polygon |
| Lucero 32-7-11 #2 L1 BHL | 2769.0 | 4380.3 | -1238.7 | 1141622.00 | 2392729.95 | Point |
| Lucero 32-7-11 #2 L1 TGT #1 | 2825.0 | 2300.0 | -1363.3 | 1139541.61 | 2392605.30 | Point |
| Lucero 32-7-11 #2 L1 LP | 2868.0 | 612.2 | -1341.8 | 1137853.69 | 2392626.84 | Point |

WELL DETAILS: Lucero 32-7-11 #2

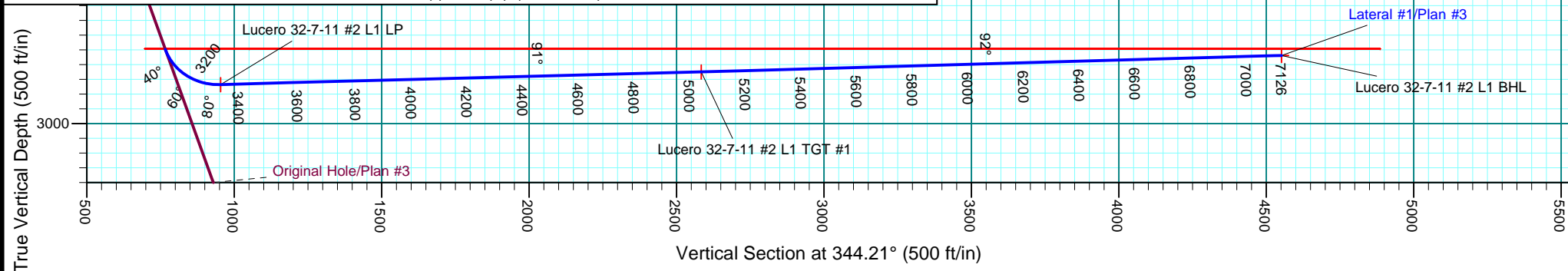
| | Ground Level: | 6303.3 | | | | |
|-------|---------------|------------|------------|-----------------|-------------------|--|
| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | |
| 0.0 | 0.0 | 1137241.51 | 2393968.66 | 37° 1' 30.288 N | 107° 34' 33.528 W | |

PROJECT DETAILS

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Southern Zone
System Datum: Mean Sea Level

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Lucero 32-7-11 #2, Grid North
Vertical (TVD) Reference: AWS 507 @ 6315.3ft (12' DF + 6303.3' GL)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: AWS 507 @ 6315.3ft (12' DF + 6303.3' GL)
Calculation Method: Minimum Curvature



| | | | |
|------------------|---------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Lucero 32-7-11 #2 |
| Company: | Samson Resources Company | TVD Reference: | AWS 507 @ 6315.3ft (12' DF + 6303.3' GL) |
| Project: | La Plata County, C.O. | MD Reference: | AWS 507 @ 6315.3ft (12' DF + 6303.3' GL) |
| Site: | SEC 11-T32N-R7W | North Reference: | Grid |
| Well: | Lucero 32-7-11 #2 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Lateral #1 | | |
| Design: | Plan #3 | | |

| | | | |
|--------------------|---------------------------|----------------------|-----------------------------|
| Project | La Plata County, C.O. | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Southern Zone | | Using geodetic scale factor |

| | | | |
|------------------------------|-----------------|--------------------------|-------------------|
| Site | SEC 11-T32N-R7W | | |
| Site Position: | | Northing: | 1,137,161.82 usft |
| From: | Lat/Long | Easting: | 2,393,949.37 usft |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 6-1/8 " |
| | | Latitude: | 37° 1' 29.496 N |
| | | Longitude: | 107° 34' 33.744 W |
| | | Grid Convergence: | -1.27 ° |

| | | | |
|-----------------------------|-------------------------------|---------|----------------------------|
| Well | Lucero 32-7-11 #2, FC HZ Well | | |
| Well Position | +N/-S | 79.7 ft | Northing: |
| | +E/-W | 19.3 ft | Easting: |
| Position Uncertainty | | 3.5 ft | Wellhead Elevation: |
| | | | Latitude: |
| | | | Longitude: |
| | | | Ground Level: |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Lateral #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 02/16/11 | 9.89 | 63.75 | 50,956 |

| | | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|--|
| Design | Plan #3 | | | | |
| Audit Notes: | | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 3,086.6 | |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 344.21 | |

| Plan Sections | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-------------------------|------------------------|-----------------------|---------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 3,086.6 | 31.31 | 290.47 | 2,748.8 | 453.4 | -1,214.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,338.1 | 91.62 | 336.69 | 2,868.0 | 612.2 | -1,341.8 | 28.00 | 23.98 | 18.38 | 50.00 | Lucero 32-7-11 #2 I |
| 3,872.6 | 91.41 | 3.43 | 2,853.7 | 1,133.7 | -1,433.2 | 5.00 | -0.04 | 5.00 | 90.09 | |
| 5,041.3 | 91.41 | 3.43 | 2,825.0 | 2,300.0 | -1,363.3 | 0.00 | 0.00 | 0.00 | 0.00 | Lucero 32-7-11 #2 I |
| 5,048.0 | 91.54 | 3.43 | 2,824.8 | 2,306.7 | -1,362.9 | 2.00 | 2.00 | 0.01 | 0.29 | |
| 7,126.1 | 91.54 | 3.43 | 2,769.0 | 4,380.3 | -1,238.7 | 0.00 | 0.00 | 0.00 | 0.00 | Lucero 32-7-11 #2 I |

| | | | |
|------------------|---------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Lucero 32-7-11 #2 |
| Company: | Samson Resources Company | TVD Reference: | AWS 507 @ 6315.3ft (12' DF + 6303.3' GL) |
| Project: | La Plata County, C.O. | MD Reference: | AWS 507 @ 6315.3ft (12' DF + 6303.3' GL) |
| Site: | SEC 11-T32N-R7W | North Reference: | Grid |
| Well: | Lucero 32-7-11 #2 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Lateral #1 | | |
| Design: | Plan #3 | | |

| Planned Survey | | | | | | | | | |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | 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 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 3.50 | 290.47 | 199.9 | 1.1 | -2.9 | 1.8 | 3.50 | 3.50 | 0.00 |
| 300.0 | 7.00 | 290.47 | 299.5 | 4.3 | -11.4 | 7.2 | 3.50 | 3.50 | 0.00 |
| 351.0 | 8.78 | 290.47 | 350.0 | 6.7 | -18.0 | 11.4 | 3.50 | 3.50 | 0.00 |
| 400.0 | 8.78 | 290.47 | 398.4 | 9.3 | -25.0 | 15.8 | 0.00 | 0.00 | 0.00 |
| 431.0 | 8.78 | 290.47 | 429.1 | 11.0 | -29.4 | 18.6 | 0.00 | 0.00 | 0.00 |
| 500.0 | 11.20 | 290.47 | 497.0 | 15.2 | -40.7 | 25.7 | 3.50 | 3.50 | 0.00 |
| 600.0 | 14.70 | 290.47 | 594.5 | 23.0 | -61.6 | 38.9 | 3.50 | 3.50 | 0.00 |
| 700.0 | 18.20 | 290.47 | 690.4 | 32.9 | -88.2 | 55.7 | 3.50 | 3.50 | 0.00 |
| 800.0 | 21.70 | 290.47 | 784.3 | 44.8 | -120.1 | 75.8 | 3.50 | 3.50 | 0.00 |
| 900.0 | 25.20 | 290.47 | 876.1 | 58.8 | -157.4 | 99.4 | 3.50 | 3.50 | 0.00 |
| 1,000.0 | 28.70 | 290.47 | 965.2 | 74.6 | -199.9 | 126.2 | 3.50 | 3.50 | 0.00 |
| 1,074.6 | 31.31 | 290.47 | 1,029.8 | 87.7 | -234.8 | 148.2 | 3.50 | 3.50 | 0.00 |
| 1,100.0 | 31.31 | 290.47 | 1,051.5 | 92.3 | -247.2 | 156.1 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 31.31 | 290.47 | 1,136.9 | 110.5 | -295.9 | 186.8 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 31.31 | 290.47 | 1,222.4 | 128.6 | -344.5 | 217.5 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 31.31 | 290.47 | 1,307.8 | 146.8 | -393.2 | 248.3 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 31.31 | 290.47 | 1,393.2 | 165.0 | -441.9 | 279.0 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 31.31 | 290.47 | 1,478.7 | 183.2 | -490.6 | 309.7 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 31.31 | 290.47 | 1,564.1 | 201.3 | -539.3 | 340.5 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 31.31 | 290.47 | 1,649.5 | 219.5 | -588.0 | 371.2 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 31.31 | 290.47 | 1,735.0 | 237.7 | -636.7 | 402.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 31.31 | 290.47 | 1,820.4 | 255.9 | -685.3 | 432.7 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 31.31 | 290.47 | 1,905.9 | 274.0 | -734.0 | 463.4 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 31.31 | 290.47 | 1,991.3 | 292.2 | -782.7 | 494.2 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 31.31 | 290.47 | 2,076.7 | 310.4 | -831.4 | 524.9 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 31.31 | 290.47 | 2,162.2 | 328.6 | -880.1 | 555.7 | 0.00 | 0.00 | 0.00 |
| 2,410.6 | 31.31 | 290.47 | 2,171.2 | 330.5 | -885.3 | 558.9 | 0.00 | 0.00 | 0.00 |
| Lucero 32-7-11 #2 Drilling Window | | | | | | | | | |
| 2,500.0 | 31.31 | 290.47 | 2,247.6 | 346.7 | -928.8 | 586.4 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 31.31 | 290.47 | 2,333.0 | 364.9 | -977.5 | 617.1 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 31.31 | 290.47 | 2,418.5 | 383.1 | -1,026.1 | 647.9 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 31.31 | 290.47 | 2,503.9 | 401.3 | -1,074.8 | 678.6 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 31.31 | 290.47 | 2,589.3 | 419.5 | -1,123.5 | 709.3 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 31.31 | 290.47 | 2,674.8 | 437.6 | -1,172.2 | 740.1 | 0.00 | 0.00 | 0.00 |
| 3,086.6 | 31.31 | 290.47 | 2,748.8 | 453.4 | -1,214.4 | 766.7 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 33.83 | 295.64 | 2,760.1 | 456.2 | -1,221.0 | 771.2 | 28.00 | 18.82 | 38.55 |
| 3,120.0 | 37.93 | 302.16 | 2,776.3 | 461.9 | -1,231.2 | 779.5 | 28.00 | 20.51 | 32.59 |
| 3,140.0 | 42.33 | 307.54 | 2,791.6 | 469.3 | -1,241.8 | 789.5 | 28.00 | 21.99 | 26.92 |
| 3,160.0 | 46.94 | 312.07 | 2,805.8 | 478.3 | -1,252.6 | 801.1 | 28.00 | 23.06 | 22.64 |
| 3,180.0 | 51.71 | 315.95 | 2,818.8 | 488.8 | -1,263.4 | 814.2 | 28.00 | 23.82 | 19.42 |
| 3,200.0 | 56.58 | 319.35 | 2,830.5 | 500.8 | -1,274.3 | 828.7 | 28.00 | 24.38 | 17.00 |
| 3,220.0 | 61.54 | 322.39 | 2,840.8 | 514.1 | -1,285.2 | 844.4 | 28.00 | 24.80 | 15.17 |
| 3,240.0 | 66.56 | 325.15 | 2,849.6 | 528.6 | -1,295.8 | 861.3 | 28.00 | 25.10 | 13.80 |
| 3,260.0 | 71.63 | 327.70 | 2,856.7 | 544.2 | -1,306.1 | 879.0 | 28.00 | 25.33 | 12.79 |
| 3,280.0 | 76.73 | 330.11 | 2,862.1 | 560.7 | -1,316.0 | 897.6 | 28.00 | 25.49 | 12.05 |
| 3,300.0 | 81.85 | 332.42 | 2,865.9 | 577.9 | -1,325.5 | 916.7 | 28.00 | 25.60 | 11.55 |
| 3,320.0 | 86.98 | 334.68 | 2,867.8 | 595.7 | -1,334.3 | 936.3 | 28.00 | 25.66 | 11.26 |
| 3,338.1 | 91.62 | 336.69 | 2,868.0 | 612.2 | -1,341.8 | 954.2 | 28.00 | 25.68 | 11.15 |
| Lucero 32-7-11 #2 L1 LP | | | | | | | | | |
| 3,400.0 | 91.61 | 339.79 | 2,866.3 | 669.6 | -1,364.7 | 1,015.7 | 5.00 | -0.01 | 5.00 |
| 3,500.0 | 91.59 | 344.79 | 2,863.5 | 764.8 | -1,395.1 | 1,115.6 | 5.00 | -0.02 | 5.00 |
| 3,600.0 | 91.56 | 349.79 | 2,860.7 | 862.3 | -1,417.1 | 1,215.4 | 5.00 | -0.03 | 5.00 |

| | | | |
|------------------|---------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Lucero 32-7-11 #2 |
| Company: | Samson Resources Company | TVD Reference: | AWS 507 @ 6315.3ft (12' DF + 6303.3' GL) |
| Project: | La Plata County, C.O. | MD Reference: | AWS 507 @ 6315.3ft (12' DF + 6303.3' GL) |
| Site: | SEC 11-T32N-R7W | North Reference: | Grid |
| Well: | Lucero 32-7-11 #2 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Lateral #1 | | |
| Design: | Plan #3 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 3,700.0 | 91.51 | 354.79 | 2,858.1 | 961.3 | -1,430.5 | 1,314.3 | 5.00 | -0.05 | 5.00 |
| 3,800.0 | 91.45 | 359.80 | 2,855.5 | 1,061.2 | -1,435.2 | 1,411.7 | 5.00 | -0.06 | 5.00 |
| 3,872.6 | 91.41 | 3.43 | 2,853.7 | 1,133.7 | -1,433.2 | 1,480.9 | 5.00 | -0.07 | 5.00 |
| 3,900.0 | 91.41 | 3.43 | 2,853.0 | 1,161.1 | -1,431.5 | 1,506.8 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 91.41 | 3.43 | 2,850.5 | 1,260.8 | -1,425.5 | 1,601.2 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 91.41 | 3.43 | 2,848.1 | 1,360.6 | -1,419.6 | 1,695.6 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 91.41 | 3.43 | 2,845.6 | 1,460.4 | -1,413.6 | 1,790.0 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 91.41 | 3.43 | 2,843.2 | 1,560.2 | -1,407.6 | 1,884.4 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 91.41 | 3.43 | 2,840.7 | 1,660.0 | -1,401.6 | 1,978.8 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 91.41 | 3.43 | 2,838.3 | 1,759.8 | -1,395.7 | 2,073.2 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 91.41 | 3.43 | 2,835.8 | 1,859.6 | -1,389.7 | 2,167.6 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 91.41 | 3.43 | 2,833.4 | 1,959.4 | -1,383.7 | 2,262.0 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 91.41 | 3.43 | 2,830.9 | 2,059.2 | -1,377.7 | 2,356.4 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 91.41 | 3.43 | 2,828.5 | 2,159.0 | -1,371.7 | 2,450.8 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 91.41 | 3.43 | 2,826.0 | 2,258.8 | -1,365.8 | 2,545.2 | 0.00 | 0.00 | 0.00 |
| 5,041.3 | 91.41 | 3.43 | 2,825.0 | 2,300.0 | -1,363.3 | 2,584.2 | 0.00 | 0.00 | 0.00 |
| Lucero 32-7-11 #2 L1 TGT #1 | | | | | | | | | |
| 5,048.0 | 91.54 | 3.43 | 2,824.8 | 2,306.7 | -1,362.9 | 2,590.5 | 2.00 | 2.00 | 0.01 |
| 5,100.0 | 91.54 | 3.43 | 2,823.4 | 2,358.5 | -1,359.8 | 2,639.6 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 91.54 | 3.43 | 2,820.7 | 2,458.3 | -1,353.8 | 2,733.9 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 91.54 | 3.43 | 2,818.1 | 2,558.1 | -1,347.8 | 2,828.3 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 91.54 | 3.43 | 2,815.4 | 2,657.9 | -1,341.9 | 2,922.7 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 91.54 | 3.43 | 2,812.7 | 2,757.7 | -1,335.9 | 3,017.1 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 91.54 | 3.43 | 2,810.0 | 2,857.5 | -1,329.9 | 3,111.5 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 91.54 | 3.43 | 2,807.3 | 2,957.3 | -1,323.9 | 3,205.9 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 91.54 | 3.43 | 2,804.6 | 3,057.0 | -1,317.9 | 3,300.3 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 91.54 | 3.43 | 2,801.9 | 3,156.8 | -1,312.0 | 3,394.7 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 91.54 | 3.43 | 2,799.3 | 3,256.6 | -1,306.0 | 3,489.1 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 91.54 | 3.43 | 2,796.6 | 3,356.4 | -1,300.0 | 3,583.5 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 91.54 | 3.43 | 2,793.9 | 3,456.2 | -1,294.0 | 3,677.9 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 91.54 | 3.43 | 2,791.2 | 3,556.0 | -1,288.1 | 3,772.3 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 91.54 | 3.43 | 2,788.5 | 3,655.7 | -1,282.1 | 3,866.7 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 91.54 | 3.43 | 2,785.8 | 3,755.5 | -1,276.1 | 3,961.1 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 91.54 | 3.43 | 2,783.1 | 3,855.3 | -1,270.1 | 4,055.5 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 91.54 | 3.43 | 2,780.4 | 3,955.1 | -1,264.1 | 4,149.8 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 91.54 | 3.43 | 2,777.8 | 4,054.9 | -1,258.2 | 4,244.2 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 91.54 | 3.43 | 2,775.1 | 4,154.7 | -1,252.2 | 4,338.6 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 91.54 | 3.43 | 2,772.4 | 4,254.5 | -1,246.2 | 4,433.0 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 91.54 | 3.43 | 2,769.7 | 4,354.2 | -1,240.2 | 4,527.4 | 0.00 | 0.00 | 0.00 |
| 7,126.1 | 91.54 | 3.43 | 2,769.0 | 4,380.3 | -1,238.7 | 4,552.1 | 0.00 | 0.00 | 0.00 |
| Lucero 32-7-11 #2 L1 BHL | | | | | | | | | |

| | | | |
|------------------|---------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Lucero 32-7-11 #2 |
| Company: | Samson Resources Company | TVD Reference: | AWS 507 @ 6315.3ft (12' DF + 6303.3' GL) |
| Project: | La Plata County, C.O. | MD Reference: | AWS 507 @ 6315.3ft (12' DF + 6303.3' GL) |
| Site: | SEC 11-T32N-R7W | North Reference: | Grid |
| Well: | Lucero 32-7-11 #2 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Lateral #1 | | |
| Design: | Plan #3 | | |

| Design Targets | | | | | | | | | |
|--|-----------|----------|---------|---------|----------|--------------|--------------|-----------------|-------------------|
| Target Name | | | | | | | | | |
| - hit/miss target | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - Shape | (°) | (°) | (ft) | (ft) | (ft) | (usft) | (usft) | | |
| Lucero 32-7-11 #2 Dri | 0.00 | 360.00 | 2,746.0 | 0.0 | 0.0 | 1,137,241.51 | 2,393,968.67 | 37° 1' 30.288 N | 107° 34' 33.528 W |
| - plan misses target center by 1106.0ft at 2410.6ft MD (2171.2 TVD, 330.5 N, -885.3 E) | | | | | | | | | |
| - Polygon | | | | | | | | | |
| Point 1 | | | 2,746.0 | 388.2 | -1,189.8 | 1,137,629.70 | 2,392,778.78 | | |
| Point 2 | | | 2,746.0 | 377.7 | -2,528.0 | 1,137,619.23 | 2,391,440.54 | | |
| Point 3 | | | 2,746.0 | 4,354.9 | -2,558.5 | 1,141,596.60 | 2,391,410.05 | | |
| Point 4 | | | 2,746.0 | 4,380.3 | -1,238.7 | 1,141,621.99 | 2,392,729.95 | | |
| Lucero 32-7-11 #2 L1 | 0.00 | 360.00 | 2,769.0 | 4,380.3 | -1,238.7 | 1,141,622.00 | 2,392,729.95 | 37° 2' 13.314 N | 107° 34' 50.002 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| Lucero 32-7-11 #2 L1 | 0.00 | 360.00 | 2,825.0 | 2,300.0 | -1,363.3 | 1,139,541.61 | 2,392,605.31 | 37° 1' 52.723 N | 107° 34' 50.967 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| Lucero 32-7-11 #2 L1 | 0.00 | 360.00 | 2,868.0 | 612.2 | -1,341.8 | 1,137,853.69 | 2,392,626.84 | 37° 1' 36.044 N | 107° 34' 50.238 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Casing Points | | | | | |
|---------------------|---------------------|--------|------|---------------------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | | Name | Casing Diameter (") | Hole Diameter (") |
| 351.0 | 350.0 | 8 5/8" | | 8-5/8 | 12-1/4 |