



WELL DETAILS: 697-26A-21

Ground Level: 8400' & RKB 24' @ 8424.00ft (H&P 324)
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1617782.01 2242963.08 39° 29' 56.026 N 108° 10' 59.237 W J

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well 697-26A-21 - Slot J, True North
Vertical (TVD) Reference: GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
Section (VS) Reference: Slot - J(0.00N, 0.00E)
Measured Depth Reference: GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
Calculation Method: Minimum Curvature
Local North: True
Location: Sec 26 T6S R97W

PROJECT DETAILS: Garfield County, CO NAD 83

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone

Design: OH (697-26A-21/OH)

Created By: Rex Hall Date: 2010-06-01



Scientific Drilling
Rocky Mountain Operations

Marathon Oil Co.

Garfield County, CO NAD 83

697-26A Pad

697-26A-21 - Slot J

OH

Design: OH

Standard Survey Report

01 June, 2010



| | | | |
|------------------|----------------------------|-------------------------------------|--|
| Company: | Marathon Oil Co. | Local Co-ordinate Reference: | Well 697-26A-21 - Slot J |
| Project: | Garfield County, CO NAD 83 | TVD Reference: | GL 8400' & RKB 24' @ 8424.00ft (H&P 324) |
| Site: | 697-26A Pad | MD Reference: | GL 8400' & RKB 24' @ 8424.00ft (H&P 324) |
| Well: | 697-26A-21 | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | EDM 2003.16 Multi-User Db |

| | | | |
|--------------------|----------------------------|----------------------|----------------|
| Project | Garfield County, CO NAD 83 | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

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|-----------------------|---------|------------------------------|-----------------|-------------------|-------------------|
| Site | | 697-26A Pad, Sec 26 T6S R97W | | | |
| Site Position: | | Northing: | 1,617,794.11 ft | Latitude: | 39° 29' 56.147 N |
| From: | Map | Easting: | 2,242,966.23 ft | Longitude: | 108° 10' 59.202 W |
| Position Uncertainty: | 0.00 ft | Slot Radlus: | in | Grid Convergence: | -1.69 ° |

| | | | | | | |
|----------------------|---|---------|---------------------|-----------------|---------------|-------------------|
| Well | 697-26A-21 - Slot J, 854' FNL & 1429' FWL | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 1,617,782.01 ft | Latitude: | 39° 29' 56.026 N |
| | +E/-W | 0.00 ft | Easting: | 2,242,963.08 ft | Longitude: | 108° 10' 59.237 W |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | ft | Ground Level: | 8,400.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 2009/12/31 | 10.60 | 65.76 | 52,382 |

| | | | | | |
|--------------------------|-------------------------|-------------------|-------------------|----------------------|-------|
| Design | OH | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 24.00 |
| Vertical Section: | Depth From (TVD) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 24.00 | 0.00 | 0.00 | 46.39 | |

| | | | | | |
|-----------------------|----------------|--|---------------------|------------------------------------|--|
| Survey Program | Date | 2010/06/01 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 27.48 | 132.04 | Survey #1 - Slot J Conductor Gyro (OH) | Standard Keeper 103 | Standard Wireline Keeper ver 1.0.3 | |
| 162.00 | 468.00 | Survey #2 - Wireline Gyro (OH) | Standard Keeper 103 | Standard Wireline Keeper ver 1.0.3 | |
| 525.00 | 2,171.00 | Survey #3 - Surface MWD (OH) | MWD SDI | MWD - Standard ver 1.0.1 | |
| 2,304.00 | 9,181.00 | Survey #4 - Production MWD (OH) | MWD SDI | MWD - Standard ver 1.0.1 | |

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|--|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|--|
| Survey | | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Buidl Rate (°/100ft) | Turn Rate (°/100ft) | |
| 24.00 | 0.00 | 0.00 | 24.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 27.48 | 0.64 | 203.37 | 27.48 | -0.02 | -0.01 | -0.02 | 18.39 | 18.39 | 0.00 | |
| First SDI Conductor Gyro Survey | | | | | | | | | | |
| 29.00 | 0.65 | 204.30 | 29.00 | -0.03 | -0.01 | -0.03 | 0.95 | 0.66 | 61.18 | |
| 34.00 | 0.68 | 207.18 | 34.00 | -0.09 | -0.04 | -0.09 | 0.90 | 0.60 | 57.60 | |
| 39.00 | 0.62 | 213.42 | 39.00 | -0.13 | -0.07 | -0.14 | 1.85 | -1.20 | 124.80 | |
| 44.00 | 0.60 | 223.21 | 44.00 | -0.18 | -0.10 | -0.19 | 2.12 | -0.40 | 195.80 | |
| 49.00 | 0.67 | 229.06 | 49.00 | -0.21 | -0.14 | -0.25 | 1.91 | 1.40 | 117.00 | |
| 54.00 | 0.71 | 233.28 | 54.00 | -0.25 | -0.19 | -0.31 | 1.29 | 0.80 | 84.40 | |
| 59.00 | 0.85 | 243.83 | 59.00 | -0.29 | -0.25 | -0.38 | 4.00 | 2.80 | 211.00 | |

Company: Marathon Oil Co.
Project: Garfield County, CO NAD 83
Site: 697-26A Pad
Well: 697-26A-21
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 697-26A-21 - Slot J
TVD Reference: GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
MD Reference: GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 64.00 | 0.93 | 256.88 | 64.00 | -0.31 | -0.32 | -0.45 | 4.35 | 1.60 | 261.00 |
| 69.00 | 1.02 | 262.34 | 69.00 | -0.33 | -0.40 | -0.52 | 2.59 | 1.80 | 109.20 |
| 74.00 | 1.03 | 263.76 | 74.00 | -0.34 | -0.49 | -0.59 | 0.55 | 0.20 | 28.40 |
| 79.00 | 1.00 | 265.63 | 79.99 | -0.35 | -0.58 | -0.66 | 0.89 | -0.60 | 37.40 |
| 84.00 | 0.98 | 267.16 | 83.99 | -0.35 | -0.67 | -0.73 | 0.66 | -0.40 | 30.60 |
| 89.00 | 0.98 | 266.72 | 88.99 | -0.36 | -0.75 | -0.79 | 0.15 | 0.00 | -8.80 |
| 94.00 | 0.99 | 266.41 | 93.99 | -0.36 | -0.84 | -0.86 | 0.23 | 0.20 | -6.20 |
| 99.00 | 0.97 | 265.03 | 98.99 | -0.37 | -0.92 | -0.92 | 0.62 | -0.40 | -27.60 |
| 104.00 | 0.97 | 261.41 | 103.99 | -0.38 | -1.01 | -0.99 | 1.23 | 0.00 | -72.40 |
| 109.00 | 1.02 | 257.37 | 108.99 | -0.39 | -1.09 | -1.06 | 1.72 | 1.00 | -80.80 |
| 114.00 | 1.06 | 257.09 | 113.99 | -0.41 | -1.18 | -1.14 | 0.81 | 0.80 | -5.60 |
| 119.00 | 1.13 | 260.29 | 118.99 | -0.43 | -1.27 | -1.22 | 1.86 | 1.40 | 64.00 |
| 124.00 | 1.17 | 263.78 | 123.99 | -0.45 | -1.37 | -1.30 | 1.61 | 0.80 | 69.80 |
| 129.00 | 1.22 | 264.80 | 128.99 | -0.46 | -1.48 | -1.38 | 1.09 | 1.00 | 20.40 |
| 132.04 | 1.36 | 264.83 | 132.03 | -0.46 | -1.54 | -1.44 | 4.61 | 4.61 | 0.99 |
| Last SDI Conductor Gyro Survey | | | | | | | | | |
| 162.00 | 0.44 | 243.71 | 161.98 | -0.55 | -2.00 | -1.83 | 3.21 | -3.07 | -70.49 |
| First SDI Surface Wireline Gyro Survey | | | | | | | | | |
| 193.00 | 0.23 | 129.60 | 192.98 | -0.64 | -2.06 | -1.93 | 1.85 | -0.68 | -368.10 |
| 224.00 | 0.91 | 100.12 | 223.98 | -0.72 | -1.77 | -1.78 | 2.32 | 2.19 | -95.10 |
| 254.00 | 1.60 | 84.09 | 253.97 | -0.72 | -1.12 | -1.31 | 2.56 | 2.30 | -53.43 |
| 285.00 | 2.39 | 72.35 | 284.95 | -0.48 | -0.07 | -0.38 | 2.86 | 2.55 | -37.87 |
| 315.00 | 3.19 | 71.98 | 314.92 | -0.03 | 1.32 | 0.93 | 2.67 | 2.67 | -1.23 |
| 346.00 | 4.10 | 70.05 | 345.85 | 0.61 | 3.18 | 2.72 | 2.96 | 2.94 | -6.23 |
| 377.00 | 4.82 | 65.63 | 376.76 | 1.53 | 5.41 | 4.97 | 2.57 | 2.32 | -14.26 |
| 407.00 | 5.82 | 63.03 | 406.63 | 2.74 | 7.91 | 7.62 | 3.43 | 3.33 | -8.67 |
| 438.00 | 6.84 | 59.75 | 437.44 | 4.38 | 10.91 | 10.92 | 3.49 | 3.29 | -10.58 |
| 468.00 | 7.75 | 57.07 | 467.20 | 6.38 | 14.15 | 14.64 | 3.24 | 3.03 | -8.93 |
| Last SDI Surface Wireline Gyro Survey | | | | | | | | | |
| 525.00 | 8.18 | 52.85 | 523.65 | 10.92 | 20.61 | 22.45 | 1.27 | 0.75 | -7.40 |
| First SDI Surface MWD Survey | | | | | | | | | |
| 616.00 | 9.15 | 45.65 | 613.61 | 19.89 | 30.94 | 36.12 | 1.60 | 1.07 | -7.91 |
| 707.00 | 9.15 | 42.75 | 703.45 | 30.26 | 41.03 | 50.57 | 0.51 | 0.00 | -3.19 |
| 798.00 | 10.20 | 43.62 | 793.16 | 41.40 | 51.50 | 65.84 | 1.16 | 1.15 | 0.96 |
| 890.00 | 10.55 | 45.21 | 883.66 | 53.23 | 63.09 | 82.40 | 0.49 | 0.38 | 1.73 |
| 982.00 | 10.90 | 48.55 | 974.05 | 64.93 | 75.59 | 99.51 | 0.78 | 0.38 | 3.63 |
| 1,074.00 | 10.90 | 52.68 | 1,064.39 | 75.96 | 89.03 | 116.85 | 0.85 | 0.00 | 4.49 |
| 1,168.00 | 11.43 | 50.92 | 1,156.61 | 87.22 | 103.33 | 134.97 | 0.67 | 0.56 | -1.87 |
| 1,262.00 | 10.20 | 48.81 | 1,248.94 | 98.57 | 116.82 | 152.57 | 1.37 | -1.31 | -2.24 |
| 1,356.00 | 11.08 | 54.52 | 1,341.33 | 109.30 | 130.44 | 169.83 | 1.46 | 0.94 | 6.07 |
| 1,450.00 | 10.46 | 54.44 | 1,433.67 | 119.50 | 144.74 | 187.22 | 0.66 | -0.66 | -0.09 |
| 1,544.00 | 9.50 | 54.61 | 1,526.25 | 128.96 | 158.00 | 203.35 | 1.02 | -1.02 | 0.18 |
| 1,638.00 | 9.15 | 54.35 | 1,619.00 | 137.80 | 170.40 | 218.43 | 0.38 | -0.37 | -0.28 |
| 1,732.00 | 10.90 | 51.45 | 1,711.57 | 147.70 | 183.42 | 234.68 | 1.94 | 1.86 | -3.09 |
| 1,826.00 | 10.99 | 51.27 | 1,803.86 | 158.84 | 197.36 | 252.47 | 0.10 | 0.10 | -0.19 |
| 1,920.00 | 11.34 | 51.01 | 1,896.08 | 170.27 | 211.54 | 270.60 | 0.38 | 0.37 | -0.28 |
| 2,014.00 | 11.43 | 49.60 | 1,988.23 | 182.12 | 225.81 | 289.12 | 0.31 | 0.10 | -1.50 |
| 2,109.00 | 12.05 | 50.48 | 2,081.24 | 194.53 | 240.63 | 308.41 | 0.68 | 0.65 | 0.93 |
| 2,171.00 | 10.29 | 50.92 | 2,142.06 | 202.14 | 249.92 | 320.38 | 2.84 | -2.84 | 0.71 |
| Last SDI Surface MWD Survey | | | | | | | | | |
| 2,304.00 | 9.15 | 47.14 | 2,273.15 | 216.82 | 266.90 | 342.80 | 0.98 | -0.86 | -2.84 |
| First SDI Production MWD Survey | | | | | | | | | |
| 2,398.00 | 9.23 | 46.53 | 2,365.95 | 227.09 | 277.85 | 357.81 | 0.13 | 0.09 | -0.65 |
| 2,492.00 | 9.76 | 56.46 | 2,458.66 | 236.68 | 289.96 | 373.20 | 1.83 | 0.56 | 10.56 |

Company: Marathon Oil Co.
Project: Garfield County, CO NAD 83
Site: 697-26A Pad
Well: 697-26A-21
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 697-26A-21 - Slot J
TVD Reference: GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
MD Reference: GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 2,586.00 | 11.17 | 57.69 | 2,551.10 | 245.95 | 304.29 | 389.97 | 1.52 | 1.50 | 1.31 |
| 2,681.00 | 11.96 | 58.21 | 2,644.17 | 256.05 | 320.44 | 408.63 | 0.84 | 0.83 | 0.55 |
| 2,775.00 | 11.52 | 56.46 | 2,736.20 | 266.37 | 336.54 | 427.40 | 0.60 | -0.47 | -1.86 |
| 2,870.00 | 12.31 | 51.27 | 2,829.16 | 277.95 | 352.35 | 446.83 | 1.40 | 0.83 | -5.46 |
| 2,964.00 | 10.82 | 46.00 | 2,921.25 | 290.35 | 366.51 | 465.64 | 1.94 | -1.59 | -5.61 |
| 3,059.00 | 11.17 | 51.18 | 3,014.51 | 302.31 | 380.10 | 483.73 | 1.10 | 0.37 | 5.45 |
| 3,154.00 | 11.34 | 51.10 | 3,107.68 | 313.94 | 394.54 | 502.21 | 0.18 | 0.18 | -0.08 |
| 3,247.00 | 12.49 | 51.80 | 3,198.68 | 325.90 | 409.55 | 521.33 | 1.25 | 1.24 | 0.75 |
| 3,341.00 | 12.84 | 52.68 | 3,290.39 | 338.52 | 425.85 | 541.84 | 0.43 | 0.37 | 0.94 |
| 3,435.00 | 11.96 | 50.48 | 3,382.20 | 351.05 | 441.67 | 561.93 | 1.06 | -0.94 | -2.34 |
| 3,529.00 | 10.90 | 50.22 | 3,474.33 | 362.94 | 456.01 | 580.52 | 1.13 | -1.13 | -0.28 |
| 3,623.00 | 11.70 | 52.85 | 3,566.51 | 374.38 | 470.44 | 598.85 | 1.01 | 0.85 | 2.80 |
| 3,717.00 | 11.26 | 50.48 | 3,658.63 | 385.98 | 485.12 | 617.48 | 0.69 | -0.47 | -2.52 |
| 3,810.00 | 11.52 | 50.13 | 3,749.80 | 397.71 | 499.25 | 635.80 | 0.29 | 0.28 | -0.38 |
| 3,905.00 | 10.29 | 47.67 | 3,843.08 | 409.50 | 512.80 | 653.75 | 1.38 | -1.29 | -2.59 |
| 4,000.00 | 11.52 | 50.83 | 3,936.36 | 421.21 | 526.43 | 671.69 | 1.44 | 1.29 | 3.33 |
| 4,095.00 | 12.05 | 50.57 | 4,029.36 | 433.50 | 541.44 | 691.04 | 0.56 | 0.56 | -0.27 |
| 4,188.00 | 12.13 | 51.45 | 4,120.30 | 445.75 | 556.58 | 710.46 | 0.22 | 0.09 | 0.95 |
| 4,283.00 | 13.81 | 51.18 | 4,212.87 | 459.08 | 573.22 | 731.70 | 1.77 | 1.77 | -0.28 |
| 4,376.00 | 13.10 | 47.76 | 4,303.32 | 473.13 | 589.68 | 753.30 | 1.15 | -0.76 | -3.68 |
| 4,470.00 | 12.49 | 49.07 | 4,394.98 | 486.95 | 605.24 | 774.10 | 0.72 | -0.65 | 1.39 |
| 4,564.00 | 12.93 | 50.48 | 4,486.68 | 500.30 | 621.03 | 794.74 | 0.57 | 0.47 | 1.50 |
| 4,658.00 | 11.43 | 48.90 | 4,578.56 | 513.11 | 636.17 | 814.54 | 1.63 | -1.60 | -1.68 |
| 4,752.00 | 10.46 | 51.01 | 4,670.85 | 524.61 | 649.82 | 832.35 | 1.12 | -1.03 | 2.24 |
| 4,846.00 | 8.88 | 53.03 | 4,763.51 | 534.34 | 662.25 | 848.06 | 1.72 | -1.68 | 2.15 |
| 4,940.00 | 9.06 | 50.39 | 4,856.36 | 543.42 | 673.75 | 862.65 | 0.48 | 0.19 | -2.81 |
| 5,035.00 | 9.32 | 46.96 | 4,950.14 | 553.44 | 685.13 | 877.81 | 0.64 | 0.27 | -3.61 |
| 5,129.00 | 9.15 | 47.67 | 5,042.93 | 563.67 | 696.22 | 892.89 | 0.22 | -0.18 | 0.76 |
| 5,224.00 | 10.20 | 51.27 | 5,136.57 | 574.02 | 708.37 | 908.82 | 1.28 | 1.11 | 3.79 |
| 5,318.00 | 9.41 | 49.34 | 5,229.20 | 584.23 | 720.69 | 924.79 | 0.91 | -0.84 | -2.05 |
| 5,413.00 | 10.46 | 53.56 | 5,322.78 | 594.41 | 733.52 | 941.10 | 1.34 | 1.11 | 4.44 |
| 5,507.00 | 10.20 | 53.38 | 5,415.25 | 604.45 | 747.06 | 957.83 | 0.28 | -0.28 | -0.19 |
| 5,602.00 | 9.94 | 53.91 | 5,508.79 | 614.29 | 760.44 | 974.31 | 0.29 | -0.27 | 0.56 |
| 5,696.00 | 9.23 | 52.33 | 5,601.48 | 623.68 | 772.96 | 989.85 | 0.81 | -0.76 | -1.68 |
| 5,790.00 | 8.62 | 51.97 | 5,694.34 | 632.63 | 784.48 | 1,004.36 | 0.65 | -0.65 | -0.38 |
| 5,885.00 | 8.53 | 53.38 | 5,788.28 | 641.22 | 795.74 | 1,018.44 | 0.24 | -0.09 | 1.48 |
| 5,979.00 | 5.72 | 46.35 | 5,881.54 | 648.61 | 804.73 | 1,030.05 | 3.12 | -2.99 | -7.48 |
| 6,073.00 | 5.10 | 41.43 | 5,975.12 | 654.98 | 810.88 | 1,038.89 | 0.82 | -0.66 | -5.23 |
| 6,168.00 | 5.54 | 40.81 | 6,069.71 | 661.61 | 816.67 | 1,047.66 | 0.47 | 0.46 | -0.65 |
| 6,263.00 | 5.01 | 37.56 | 6,164.31 | 668.37 | 822.20 | 1,056.33 | 0.64 | -0.56 | -3.42 |
| 6,358.00 | 4.92 | 34.31 | 6,258.96 | 675.03 | 827.02 | 1,064.41 | 0.31 | -0.09 | -3.42 |
| 6,453.00 | 5.28 | 47.67 | 6,353.58 | 681.33 | 832.55 | 1,072.76 | 1.30 | 0.38 | 14.06 |
| 6,547.00 | 3.34 | 62.52 | 6,447.32 | 685.51 | 838.18 | 1,079.72 | 2.36 | -2.06 | 15.80 |
| 6,642.00 | 2.99 | 59.18 | 6,542.17 | 688.06 | 842.76 | 1,084.79 | 0.42 | -0.37 | -3.52 |
| 6,736.00 | 2.55 | 52.77 | 6,636.06 | 690.58 | 846.53 | 1,089.26 | 0.57 | -0.47 | -6.82 |
| 6,831.00 | 2.11 | 49.60 | 6,730.98 | 692.99 | 849.55 | 1,093.11 | 0.48 | -0.46 | -3.34 |
| 6,925.00 | 1.67 | 32.37 | 6,824.93 | 695.27 | 851.60 | 1,096.17 | 0.76 | -0.47 | -18.33 |
| 7,018.00 | 1.32 | 9.52 | 6,917.90 | 697.47 | 852.50 | 1,098.34 | 0.74 | -0.38 | -24.57 |
| 7,112.00 | 1.41 | 322.94 | 7,011.88 | 699.46 | 851.98 | 1,099.34 | 1.15 | 0.10 | -49.55 |
| 7,206.00 | 1.49 | 313.98 | 7,105.85 | 701.23 | 850.41 | 1,099.42 | 0.26 | 0.09 | -9.53 |
| 7,301.00 | 1.49 | 314.94 | 7,200.81 | 702.96 | 848.64 | 1,099.33 | 0.03 | 0.00 | 1.01 |
| 7,396.00 | 1.93 | 305.89 | 7,295.77 | 704.77 | 846.47 | 1,099.01 | 0.54 | 0.46 | -9.53 |
| 7,490.00 | 1.93 | 286.47 | 7,389.72 | 706.15 | 843.67 | 1,097.93 | 0.69 | 0.00 | -20.66 |
| 7,585.00 | 1.93 | 259.84 | 7,484.67 | 706.32 | 840.56 | 1,095.80 | 0.94 | 0.00 | -28.03 |

Company: Marathon Oil Co.
Project: Garfield County, CO NAD 83
Site: 697-26A Pad
Well: 697-26A-21
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 697-26A-21 - Slot J
TVD Reference: GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
MD Reference: GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 7,680.00 | 2.29 | 260.71 | 7,579.60 | 705.73 | 837.12 | 1,092.90 | 0.38 | 0.38 | 0.92 |
| 7,774.00 | 2.02 | 272.67 | 7,673.54 | 705.51 | 833.61 | 1,090.20 | 0.56 | -0.29 | 12.72 |
| 7,869.00 | 2.20 | 273.28 | 7,768.47 | 705.69 | 830.11 | 1,087.80 | 0.19 | 0.19 | 0.64 |
| 7,963.00 | 2.55 | 282.60 | 7,862.39 | 706.25 | 826.27 | 1,085.40 | 0.55 | 0.37 | 9.91 |
| 8,057.00 | 3.43 | 271.17 | 7,956.26 | 706.76 | 821.42 | 1,082.24 | 1.13 | 0.94 | -12.16 |
| 8,151.00 | 3.43 | 270.73 | 8,050.10 | 706.85 | 815.80 | 1,078.23 | 0.03 | 0.00 | -0.47 |
| 8,246.00 | 2.37 | 274.34 | 8,144.97 | 707.04 | 811.00 | 1,074.88 | 1.13 | -1.12 | 3.80 |
| 8,340.00 | 3.08 | 280.23 | 8,238.87 | 707.64 | 806.57 | 1,072.09 | 0.81 | 0.76 | 6.27 |
| 8,435.00 | 3.43 | 277.50 | 8,333.71 | 708.46 | 801.24 | 1,068.80 | 0.40 | 0.37 | -2.87 |
| 8,529.00 | 3.25 | 281.63 | 8,427.55 | 709.36 | 795.85 | 1,065.52 | 0.32 | -0.19 | 4.39 |
| 8,624.00 | 3.08 | 289.72 | 8,522.41 | 710.77 | 790.81 | 1,062.84 | 0.50 | -0.18 | 8.52 |
| 8,719.00 | 3.25 | 289.02 | 8,617.26 | 712.51 | 785.86 | 1,060.45 | 0.18 | 0.18 | -0.74 |
| 8,813.00 | 3.69 | 286.38 | 8,711.09 | 714.23 | 780.44 | 1,057.71 | 0.50 | 0.47 | -2.81 |
| 8,908.00 | 3.78 | 285.76 | 8,805.89 | 715.94 | 774.49 | 1,054.59 | 0.10 | 0.09 | -0.65 |
| 9,002.00 | 4.04 | 284.53 | 8,899.67 | 717.61 | 768.30 | 1,051.26 | 0.29 | 0.28 | -1.31 |
| 9,096.00 | 3.78 | 285.41 | 8,993.45 | 719.27 | 762.11 | 1,047.92 | 0.28 | -0.28 | 0.94 |
| 9,128.00 | 3.78 | 285.32 | 9,025.38 | 719.83 | 760.08 | 1,046.83 | 0.02 | 0.00 | -0.28 |
| Last SDI Production MWD Survey | | | | | | | | | |
| 9,181.00 | 3.78 | 285.32 | 9,078.27 | 720.75 | 756.71 | 1,045.03 | 0.00 | 0.00 | 0.00 |
| Projection To TD | | | | | | | | | |

Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|-----------------|-------------------|
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| 697-26A-21 PBHL | 0.00 | 0.00 | 9,130.00 | 653.14 | 768.84 | 1,618,412.16 | 2,243,750.87 | 39° 30' 2.482 N | 108° 10' 49.429 W |
| - actual wellpath misses target center by 85.99ft at 9181.00ft MD (9078.27 TVD, 720.75 N, 756.71 E) | | | | | | | | | |
| - Rectangle (sides W100.00 H200.00 D0.00) | | | | | | | | | |

Checked By: _____ Approved By: _____ Date: _____