# Real Time Log

## Natural Formation Evaluation

**Company:** Anadarko
**Well:** Badding 34N-2HZ
**Field:** Weld County
**Region:** RMD **Country:** United States

Scale: 1:1200
True Vertical Depth

Status: Final Print

Surface Location:
Latitude: 40° 5' 38.105" N
Longitude: 104° 45' 2.495" W

Other Services: Directional VSS

API Number: 05-123-38287-00

SEC: 35 TWN: 2N RNG: 66W

Permanent Datum (P.D.): Ground Level Elevation: 5114.00 ft.
Log Measured From: Rig Floor 13.00 ft. Above P.D.
Depth Reference: Driller's Depth

Elevations:
KB: N/A
DF: 5127.00 ft.
GL: 5114.00 ft.

| Interval Logged | | Dates | | Magnetic Field Reference | |
|---|---|---|---|---|---|
| Top: | 6737.0 ft. | Date From: | 06/Dec/2013 | Dip Angle: | 66.61 ° |
| Bottom: | 15137.0 ft. | Date To: | 13/Dec/2013 | Total | |
| | | Spud Date: | 06/Dec/2013 | Field Strength: | 52963.0 nT |

Azi Reference North: True
Mag to Reference North Correction: 8.34 °

**Borehole Record**

| Hole Size | From | To |
|---|---|---|
| 13.500 in. | 0.0 ft. | 1258.0 ft. |
| 8.750 in. | 1258.0 ft. | 7768.0 ft. |
| 6.125 in. | 7768.0 ft. | 15188.0 ft. |

**Casing Record**

| Size | Weight | From | To |
|---|---|---|---|
| 9.625 in. | 36.00 lb/ft | 0.0 ft. | 1248.0 ft. |
| 7.000 in. | 26.00 lb/ft | 1248.0 ft. | 7758.0 ft. |

**Mud Record**

| Type | From | To |
|---|---|---|
| Water Based | 1258.0 ft. | 7768.0 ft. |
| Water Based | 7768.0 ft. | 15188.0 ft. |

**Deviation Record**

| Hole Size | Interval | Inc / Az (Start) | Inc / Az (End) |
|---|---|---|---|
| 8.750 in. | 6510.0 ft. | 1.2 ° / 359.2 ° | 86.4 ° / 183.7 ° |
| 6.125 in. | 7420.0 ft. | 86.4 ° / 183.7 ° | 89.7 ° / 180.0 ° |
| | | / | / |
| | | / | / |
| | | / | / |
| | | / | / |

| Acquisition System | Software Version | Other | |
|---|---|---|---|
| Advantage | 2.20U4 | Rig: / Contractor: | Ensign 145 / Advance Drilling |
| PATS | 6.4.1.34 | Job No: | 5994944 |
| | | District: / Unit: | RMD / D&E |

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### Log Run Summary

| LWD Run No. | BHA Run No. | Bit Run No. | Bit Size (in.) | Bit Type | Bit Gauge Length (in.) | Assembly Type | Logged Interval Top (ft.) | Logged Interval Bottom (ft.) | Bit Depth Interval From (ft.) | Bit Depth Interval To (ft.) | Date / Time Start | Date / Time End | Circ. Time (hrs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 8.750 | PDC | 1.000 | Steerable | 6737.0 | 7712.0 | 1258.0 | 7768.0 | 06/Dec/2013 00:30 | 09/Dec/2013 03:45 | 44.5 |
| 2 | 2 | 2 | 6.125 | PDC | 3.000 | Steerable | 7712.0 | 15137.0 | 7768.0 | 15188.0 | 10/Dec/2013 01:00 | 13/Dec/2013 19:00 | 45.9 |

### Crew

| Name | Arrive Wellsite | Depart Wellsite | Name | Arrive Wellsite | Depart Wellsite | Name | Arrive Wellsite | Depart Wellsite |
|---|---|---|---|---|---|---|---|---|
| Michael Gurnsey | 06/Dec/2013 | 13/Dec/2013 | Donald Delay | 06/Dec/2013 | 13/Dec/2013 | | | |
| Alexander Janorschke | 06/Dec/2013 | 13/Dec/2013 | Thanh Hoang Nguyen | 06/Dec/2013 | 13/Dec/2013 | | | |
| Peter Adebayo | 06/Dec/2013 | 13/Dec/2013 | | | | | | |

### Mud Properties Record

| Date / Time | | LWD Run No. | Measured Depth (ft.) | Mud Type | Density (ppg) | Viscosity (cp) | pH | Fluid Loss (cc/30min) | Oil / Water | Source | Total Chlorides (ppm) | K+ (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/Dec/2013 | 22:30 | 1 | 3749.0 | Water Based Mud | 8.6 | 3 | 8.5 | N/A | 0 / 99 | Active Mud Pits | 1600 | N/A |
| 07/Dec/2013 | 22:00 | 1 | 6811.0 | Water Based Mud | 9.5 | 10 | 8.5 | 5.5 | 1 / 93 | Active Mud Pits | 1600 | N/A |
| 08/Dec/2013 | 22:00 | 1 | 7768.0 | Water Based Mud | 10.1 | 11 | 8.5 | 6.0 | 1 / 91 | Active Mud Pits | 1700 | N/A |
| 09/Dec/2013 | 22:00 | 1 | 7768.0 | Water Based Mud | 9.7 | 8 | 8.5 | 5.5 | 1 / 92 | Active Mud Pits | 1200 | N/A |
| 10/Dec/2013 | 22:00 | 2 | 8401.0 | Water Based Mud | 9.5 | 10 | 8.5 | 4.5 | 2 / 93 | Active Mud Pits | 1200 | N/A |
| 11/Dec/2013 | 22:00 | 2 | 11952.0 | Water Based Mud | 9.5 | 12 | 8.5 | 4.5 | 2 / 93 | Active Mud Pits | 1100 | N/A |
| 12/Dec/2013 | 21:30 | 2 | 15013.0 | Water Based Mud | 9.4 | 12 | 8.5 | 4.5 | 2 / 93 | Active Mud Pits | 1100 | N/A |

### Mnemonics

| Curve | Description | Units |
|---|---|---|
| GRAX | Gamma Ray Apparent, 3.0 ft. avg. | API |
| ROPA | Rate of Penetration, 3.0 ft. avg. | ft. / hr. |
| TCDX | Downhole Temperature | deg. F. |
| WOBA | Surface Weight on Bit, 1.0 ft. avg. | klbf. |

### Equipment and Service Data

| LWD Run No. | Tool | Serial Number | Measurement | Bit Offset (ft.) | Max O.D. (in.) | Min I.D. (in.) |
|---|---|---|---|---|---|---|
| 1 | DIR | 12456790 | Directional | 56.84 | 6.750 | 2.875 |
| 1 | SRIG | 12622668 | Gamma | 53.46 | 6.750 | 2.875 |
| 2 | DIR | 12440863 | Directional | 54.48 | 4.750 | 2.625 |
| 2 | SRIG | 12595025 | Gamma | 51.10 | 4.750 | 2.625 |

### Service and Tool Mnemonics

| Mnemonic | Name | Description |
|---|---|---|
| DIR | Directional | Wellbore directional survey |
| SRIG | Inclination and Gamma | Probe based gamma ray and inclination module |

### Comments

1) Baker Hughes Run 1 utilized 6 1/2 inch NaviGamma (directional and gamma ray) services with a bent motor to drill 8 3/4 inch hole from 1258-7768 ft MD (1258-7344 ft TVD).

2) Baker Hughes Run 2 utilized 4 3/4 inch NaviGamma (directional and gamma ray) services with a bent motor to drill 6 1/8 inch hole from 7768-15188 ft MD (7344-7367 ft TVD).

3) A sliding indicator is shown on the left side of track 1 as a heavy line. This indicator has been shifted to the Gamma Ray sensor offset to correspond with Gamma Ray data acquired while sliding.

4) Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes INTEQ. Due to lack of control by Baker Hughes INTEQ logging engineers, depth calibrations and measurements could not be independently verified, and the unverified depths as supplied to INTEQ are being used to present logging data.

### Remarks

| Number | Measured Depth (ft.) | Hole Section (in.) | LWD Run No. | Remark |
|---|---|---|---|---|
| 1 | 6736 | 8.750 | 1 | The interval from surface to 6736 feet MD (6671 feet TVD) was not logged since logging services began at curve kick off point during run 1. |
| 2 | 7718 | 6.125 | 2 | The interval from 7718 feet to 7768 feet MD (7341 to 7163 feet TVD) was logged up to 45.7 hours after being drilled due to casing and cementing operations and to pick up lateral tools. |

Company : Anadarko
Well : Badding 34N-2HZ
Interval : 6650.00 - 7390.00 feet
Created : 13/Dec/2013 11:06:07 AM

Gamma Ray Apparent 0.5 ft Avg GRAX
0
150
API
TVD feet 1:240
Rate of Penetration 3.0 ft Avg [ROPA]
600
0
ft/hr
Surface Weight On Bit 1.0 ft Avg [WOBA]
0
100
klbf
Downhole Temperature TCDX
0
250
degF
See Remark 1
GRAX
ROPA
WOBA
TCDX
6700
6800
6900
7000
7100
7200
7300
See Remark 2
GRAX
ROPA
WOBA
TCDX
Gamma Ray Apparent 0.5 ft Avg GRAX
0
150
API
TVD feet 1:240
Rate of Penetration 3.0 ft Avg [ROPA]
600
0
ft/hr
Surface Weight On Bit 1.0 ft Avg [WOBA]
0
100
klbf
Downhole Temperature TCDX
0
250
degF

## ADVANTAGE Final Survey Listing

| | | | | | |
|---|---|---|---|---|---|
| Operator | : Anadarko | Field | : Weld County | API No | : 05-123-38287 |
| Well | : Badding 34N-2HZ | Rig | : Ensign 145 | Job | : 5994944 |
| Wellbore | : Badding 34N-2HZ Orig Hole | | | | |

### Well Origin

| | | | |
|---|---|---|---|
| Latitude | 40.0939 deg | Longitude | -104.7507 deg |
| North Reference | True | Drill Depth Zero | NULL |
| Vertical Datum is | Ground Level | Vertical Datum to DDZ | 13.00 ft |
| Vertical Section North | 0.00 ft | Vertical Section East | 0.00 ft |
| Vertical Section Azimuth | 179.9600 deg | Vertical Section Depth | 0.00ft |
| Grid Convergence | 0.0000 deg | Magnetic Declination | 8.3400 deg |
| Total Correction | 8.3400 deg | TVD Calculation Method | Minimal Curvature |
| D-Raw Calculation | Magcorr1 | Local Magnetic Field | 52963 nT |
| Local Magnetic Dip Angle | 66.6100 deg | Local Gravity Field | 9.801 m/s^2 |

| Tie | MD ft | Incl deg | Azim deg | North ft | East ft | TVD ft | VS ft | Incr VS ft | Crs Len ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U | 1153.00 | 0.5100 | 281.2700 | 5.69 | 0.44 | 1152.97 | -5.69 | -1.01 | | 0.04 | 0.04 | -6.83 |
| | 1291.00 | 1.1700 | 359.1800 | 7.22 | -0.18 | 1290.96 | -7.22 | 0.64 | 138.00 | 0.85 | 0.48 | 56.46 |
| | 1354.00 | 1.0600 | 8.6000 | 8.44 | -0.10 | 1353.95 | -8.44 | 1.87 | 63.00 | 0.34 | -0.17 | 14.95 |
| | 1447.00 | 2.6400 | 321.2300 | 10.96 | -1.32 | 1446.90 | -10.96 | 4.66 | 93.00 | 2.23 | 1.70 | -50.94 |
| | 1541.00 | 4.6500 | 313.8900 | 15.29 | -5.42 | 1540.70 | -15.29 | 10.63 | 94.00 | 2.19 | 2.14 | -7.81 |
| | 1635.00 | 6.8400 | 314.3700 | 21.85 | -12.17 | 1634.23 | -21.85 | 20.04 | 94.00 | 2.33 | 2.33 | 0.51 |
| | 1728.00 | 7.9900 | 318.5100 | 30.56 | -20.41 | 1726.45 | -30.57 | 32.03 | 93.00 | 1.36 | 1.24 | 4.45 |
| | 1822.00 | 9.3200 | 314.7900 | 40.82 | -30.14 | 1819.38 | -40.84 | 46.17 | 94.00 | 1.53 | 1.41 | -3.96 |
| | 1915.00 | 10.8200 | 307.5400 | 51.44 | -42.41 | 1910.94 | -51.47 | 62.40 | 93.00 | 2.11 | 1.61 | -7.80 |
| | 2009.00 | 10.0600 | 304.9100 | 61.52 | -56.14 | 2003.39 | -61.56 | 79.43 | 94.00 | 0.95 | -0.81 | -2.80 |
| | 2102.00 | 10.1800 | 304.6900 | 70.84 | -69.55 | 2094.94 | -70.89 | 95.77 | 93.00 | 0.14 | 0.13 | -0.24 |
| | 2195.00 | 9.8900 | 302.5000 | 79.81 | -83.05 | 2186.52 | -79.87 | 111.97 | 93.00 | 0.52 | -0.31 | -2.35 |
| | 2289.00 | 10.8800 | 305.2300 | 89.27 | -97.10 | 2278.98 | -89.33 | 128.91 | 94.00 | 1.18 | 1.05 | 2.90 |
| | 2382.00 | 10.7500 | 304.6900 | 99.27 | -111.40 | 2370.33 | -99.34 | 146.36 | 93.00 | 0.18 | -0.14 | -0.58 |
| | 2476.00 | 10.7800 | 303.0700 | 109.05 | -125.98 | 2462.67 | -109.14 | 163.92 | 94.00 | 0.32 | 0.03 | -1.72 |
| | 2569.00 | 10.3400 | 302.3600 | 118.27 | -140.32 | 2554.10 | -118.36 | 180.96 | 93.00 | 0.49 | -0.47 | -0.76 |
| | 2663.00 | 10.3500 | 303.1400 | 127.40 | -154.51 | 2646.57 | -127.50 | 197.84 | 94.00 | 0.15 | 0.01 | 0.83 |
| | 2756.00 | 10.2500 | 302.8700 | 136.45 | -168.46 | 2738.07 | -136.57 | 214.47 | 93.00 | 0.12 | -0.11 | -0.29 |
| | 2850.00 | 10.1900 | 302.6000 | 145.47 | -182.49 | 2830.58 | -145.60 | 231.15 | 94.00 | 0.08 | -0.06 | -0.29 |
| | 2940.00 | 9.8700 | 301.3000 | 153.77 | -195.79 | 2919.20 | -153.91 | 246.82 | 90.00 | 0.44 | -0.36 | -1.44 |
| | 3030.00 | 9.3300 | 301.2500 | 161.56 | -208.61 | 3007.94 | -161.71 | 261.83 | 90.00 | 0.60 | -0.60 | -0.06 |
| | 3120.00 | 9.2400 | 302.7800 | 169.26 | -220.93 | 3096.76 | -169.41 | 276.35 | 90.00 | 0.29 | -0.10 | 1.70 |
| | 3209.00 | 9.1200 | 301.1300 | 176.77 | -232.97 | 3184.62 | -176.94 | 290.55 | 89.00 | 0.33 | -0.13 | -1.85 |
| | 3299.00 | 9.2600 | 301.7600 | 184.27 | -245.23 | 3273.47 | -184.44 | 304.92 | 90.00 | 0.19 | 0.16 | 0.70 |
| | 3389.00 | 9.0100 | 301.1300 | 191.73 | -257.42 | 3362.33 | -191.91 | 319.21 | 90.00 | 0.30 | -0.28 | -0.70 |
| | 3479.00 | 8.9900 | 301.4500 | 199.04 | -269.45 | 3451.22 | -199.23 | 333.29 | 90.00 | 0.06 | -0.02 | 0.36 |
| | 3569.00 | 9.1300 | 307.4200 | 207.05 | -281.12 | 3540.10 | -207.24 | 347.44 | 90.00 | 1.06 | 0.16 | 6.63 |
| | 3659.00 | 8.9400 | 304.0500 | 215.30 | -292.59 | 3628.98 | -215.51 | 361.57 | 90.00 | 0.62 | -0.21 | -3.74 |
| | 3749.00 | 8.5900 | 302.5500 | 222.83 | -304.05 | 3717.93 | -223.05 | 375.28 | 90.00 | 0.46 | -0.39 | -1.67 |
| | 3839.00 | 9.4800 | 307.3600 | 230.95 | -315.61 | 3806.81 | -231.17 | 389.40 | 90.00 | 1.30 | 0.99 | 5.34 |
| | 3929.00 | 9.5000 | 306.5900 | 239.87 | -327.46 | 3895.58 | -240.10 | 404.24 | 90.00 | 0.14 | 0.02 | -0.86 |
| | 4019.00 | 10.2200 | 313.4000 | 249.79 | -339.23 | 3984.26 | -250.02 | 419.62 | 90.00 | 1.52 | 0.80 | 7.57 |
| | 4110.00 | 9.8200 | 312.9800 | 260.62 | -350.77 | 4073.87 | -260.87 | 435.46 | 91.00 | 0.45 | -0.44 | -0.46 |
| | 4199.00 | 9.5700 | 313.0200 | 270.85 | -361.73 | 4161.60 | -271.10 | 450.45 | 89.00 | 0.28 | -0.28 | 0.04 |
| | 4290.00 | 9.3400 | 311.5100 | 280.90 | -372.79 | 4251.36 | -281.16 | 465.39 | 91.00 | 0.37 | -0.25 | -1.66 |
| | 4380.00 | 11.0900 | 314.5700 | 291.82 | -384.43 | 4339.93 | -292.08 | 481.35 | 90.00 | 2.04 | 1.94 | 3.40 |
| | 4470.00 | 11.3600 | 312.2000 | 303.84 | -397.16 | 4428.21 | -304.12 | 498.86 | 90.00 | 0.59 | 0.30 | -2.63 |
| | 4560.00 | 11.0700 | 313.0500 | 315.70 | -410.04 | 4516.49 | -315.98 | 516.37 | 90.00 | 0.37 | -0.32 | 0.94 |
| | 4650.00 | 10.9400 | 314.7200 | 327.60 | -422.42 | 4604.84 | -327.90 | 533.55 | 90.00 | 0.38 | -0.14 | 1.86 |
| | 4740.00 | 10.9100 | 314.4800 | 339.58 | -434.57 | 4693.21 | -339.88 | 550.60 | 90.00 | 0.06 | -0.03 | -0.27 |
| | 4830.00 | 10.5900 | 312.7300 | 351.16 | -446.72 | 4781.63 | -351.47 | 567.39 | 90.00 | 0.51 | -0.36 | -1.94 |
| | 4920.00 | 10.4600 | 312.7900 | 362.32 | -458.79 | 4870.11 | -362.64 | 583.83 | 90.00 | 0.14 | -0.14 | 0.07 |
| | 5010.00 | 10.2100 | 311.3500 | 373.14 | -470.77 | 4958.65 | -373.47 | 599.97 | 90.00 | 0.40 | -0.28 | -1.60 |
| | 5100.00 | 10.1400 | 310.6100 | 383.57 | -482.77 | 5047.24 | -383.90 | 615.87 | 90.00 | 0.16 | -0.08 | -0.82 |
| | 5190.00 | 9.6100 | 307.4300 | 393.29 | -494.75 | 5135.90 | -393.64 | 631.30 | 90.00 | 0.84 | -0.59 | -3.53 |
| | 5280.00 | 9.3400 | 306.0100 | 402.15 | -506.63 | 5224.68 | -402.50 | 646.12 | 90.00 | 0.40 | -0.30 | -1.58 |
| | 5370.00 | 9.1000 | 303.8400 | 410.41 | -518.45 | 5313.51 | -410.77 | 660.53 | 90.00 | 0.47 | -0.27 | -2.41 |
| | 5460.00 | 8.3300 | 301.0800 | 417.74 | -529.94 | 5402.47 | -418.11 | 674.17 | 90.00 | 0.97 | -0.86 | -3.07 |
| | 5550.00 | 8.6500 | 307.6000 | 425.23 | -540.89 | 5491.49 | -425.61 | 687.43 | 90.00 | 1.13 | 0.36 | 7.24 |
| | 5640.00 | 8.9700 | 305.1500 | 433.40 | -551.99 | 5580.43 | -433.79 | 701.21 | 90.00 | 0.55 | 0.36 | -2.72 |
| | 5730.00 | 8.1800 | 302.4100 | 440.87 | -563.13 | 5669.42 | -441.26 | 714.63 | 90.00 | 0.99 | -0.88 | -3.04 |
| | 5820.00 | 7.5400 | 301.6500 | 447.40 | -573.56 | 5758.58 | -447.80 | 726.94 | 90.00 | 0.72 | -0.71 | -0.84 |
| | 5910.00 | 6.6800 | 298.7800 | 453.02 | -583.18 | 5847.88 | -453.43 | 738.07 | 90.00 | 1.03 | -0.96 | -3.19 |
| | 6000.00 | 5.8300 | 298.8200 | 457.74 | -591.77 | 5937.35 | -458.16 | 747.88 | 90.00 | 0.94 | -0.94 | 0.04 |
| | 6090.00 | 5.2700 | 293.9000 | 461.62 | -599.55 | 6026.92 | -462.04 | 756.57 | 90.00 | 0.82 | -0.62 | -5.47 |
| | 6180.00 | 4.3900 | 285.7600 | 464.23 | -606.65 | 6116.60 | -464.66 | 764.13 | 90.00 | 1.24 | -0.98 | -9.04 |
| | 6270.00 | 4.0900 | 279.3800 | 465.69 | -613.13 | 6206.36 | -466.12 | 770.78 | 90.00 | 0.62 | -0.33 | -7.09 |
| | 6360.00 | 3.8900 | 281.5000 | 466.82 | -619.29 | 6296.14 | -467.26 | 777.04 | 90.00 | 0.28 | -0.22 | 2.36 |
| | 6450.00 | 3.1700 | 278.9700 | 467.82 | -624.74 | 6385.97 | -468.26 | 782.58 | 90.00 | 0.82 | -0.80 | -2.81 |
| | 6540.00 | 2.8100 | 273.0700 | 468.33 | -629.40 | 6475.85 | -468.77 | 787.27 | 90.00 | 0.53 | -0.40 | -6.56 |
| | 6630.00 | 2.0900 | 275.3400 | 468.60 | -633.23 | 6565.76 | -469.04 | 791.11 | 90.00 | 0.81 | -0.80 | 2.52 |
| | 6720.00 | 1.8100 | 283.9000 | 469.09 | -636.25 | 6655.71 | -469.54 | 794.17 | 90.00 | 0.45 | -0.31 | 9.51 |
| | 6811.00 | 1.8100 | 167.6900 | 468.03 | -637.34 | 6746.69 | -468.48 | 795.69 | 91.00 | 3.38 | 0.00 | -127.70 |
| | 6856.00 | 6.9100 | 166.3300 | 464.71 | -636.55 | 6791.54 | -465.15 | 799.11 | 45.00 | 11.33 | 11.33 | -3.02 |
| | 6901.00 | 11.7800 | 169.5400 | 457.55 | -635.07 | 6835.93 | -458.00 | 806.41 | 45.00 | 10.88 | 10.82 | 7.13 |
| | 6946.00 | 14.4200 | 173.0200 | 447.47 | -633.56 | 6879.76 | -447.91 | 816.60 | 45.00 | 6.12 | 5.87 | 7.73 |
| | 6991.00 | 14.1700 | 167.8500 | 436.53 | -631.72 | 6923.37 | -436.97 | 827.70 | 45.00 | 2.89 | -0.56 | -11.49 |
| | 7036.00 | 16.3500 | 164.6900 | 425.03 | -628.88 | 6966.78 | -425.47 | 839.54 | 45.00 | 5.18 | 4.84 | -7.02 |
| | 7081.00 | 18.7800 | 168.2600 | 411.83 | -625.74 | 7009.68 | -412.26 | 853.11 | 45.00 | 5.90 | 5.40 | 7.93 |
| | 7111.00 | 22.7500 | 170.5900 | 401.37 | -623.80 | 7037.73 | -401.81 | 863.75 | 30.00 | 13.51 | 13.23 | 7.77 |
| | 7126.00 | 24.6300 | 170.9800 | 395.42 | -622.84 | 7051.46 | -395.86 | 869.77 | 15.00 | 12.58 | 12.53 | 2.60 |
| | 7171.00 | 30.3000 | 172.3800 | 374.89 | -619.86 | 7091.37 | -375.33 | 890.52 | 45.00 | 12.68 | 12.60 | 3.11 |
| | 7216.00 | 36.1300 | 174.4800 | 350.42 | -617.08 | 7129.01 | -350.85 | 915.15 | 45.00 | 13.20 | 12.96 | 4.67 |
| | 7261.00 | 42.5400 | 176.1700 | 322.00 | -614.78 | 7163.79 | -322.43 | 943.66 | 45.00 | 14.44 | 14.24 | 3.76 |
| | 7306.00 | 48.9000 | 175.6000 | 289.88 | -612.46 | 7195.20 | -290.31 | 975.86 | 45.00 | 14.16 | 14.13 | -1.27 |
| | 7351.00 | 55.4700 | 176.3400 | 254.44 | -609.98 | 7222.77 | -254.87 | 1011.39 | 45.00 | 14.66 | 14.60 | 1.64 |
| | 7396.00 | 59.3500 | 178.0600 | 216.58 | -608.14 | 7247.01 | -217.01 | 1049.30 | 45.00 | 9.20 | 8.62 | 3.82 |
| | 7441.00 | 61.4400 | 176.6700 | 177.50 | -606.33 | 7269.24 | -177.92 | 1088.42 | 45.00 | 5.36 | 4.64 | -3.09 |
| | 7486.00 | 66.0700 | 175.4900 | 137.25 | -603.57 | 7289.13 | -137.67 | 1128.77 | 45.00 | 10.55 | 10.29 | -2.62 |
| | 7531.00 | 71.1400 | 177.1900 | 95.45 | -600.91 | 7305.54 | -95.87 | 1170.65 | 45.00 | 11.80 | 11.27 | 3.78 |
| | 7576.00 | 75.9400 | 178.7500 | 52.33 | -599.38 | 7318.29 | -52.75 | 1213.79 | 45.00 | 11.17 | 10.67 | 3.47 |
| | 7621.00 | 78.1000 | 182.0000 | 8.49 | -599.68 | 7328.40 | -8.91 | 1257.63 | 45.00 | 8.52 | 4.80 | 7.22 |
| | 7666.00 | 81.1900 | 183.0300 | -35.72 | -601.62 | 7336.49 | 35.30 | 1301.89 | 45.00 | 7.23 | 6.87 | 2.29 |
| | 7710.00 | 86.3600 | 183.6900 | -79.37 | -604.18 | 7341.26 | 78.95 | 1345.62 | 44.00 | 11.84 | 11.75 | 1.50 |
| | 7870.00 | 89.7800 | 183.4600 | -238.95 | -614.15 | 7346.64 | 238.52 | 1505.50 | 160.00 | 2.14 | 2.14 | -0.14 |
| | 7933.00 | 90.2100 | 183.4100 | -301.84 | -617.93 | 7346.65 | 301.40 | 1568.50 | 63.00 | 0.69 | 0.68 | -0.08 |
| | 8026.00 | 90.3600 | 183.4400 | -394.67 | -623.48 | 7346.19 | 394.23 | 1661.50 | 93.00 | 0.16 | 0.16 | 0.03 |
| | 8120.00 | 91.0100 | 183.3200 | -488.50 | -629.03 | 7345.06 | 488.06 | 1755.50 | 94.00 | 0.70 | 0.69 | -0.13 |
| | 8214.00 | 90.6100 | 181.7100 | -582.39 | -633.15 | 7343.73 | 581.95 | 1849.48 | 94.00 | 1.76 | -0.43 | -1.71 |
| | 8307.00 | 90.6100 | 181.1900 | -675.36 | -635.50 | 7342.74 | 674.92 | 1942.48 | 93.00 | 0.56 | 0.00 | -0.56 |
| | 8401.00 | 90.9200 | 181.2200 | -769.33 | -637.48 | 7341.49 | 768.88 | 2036.47 | 94.00 | 0.33 | 0.33 | 0.03 |
| | 8495.00 | 89.8700 | 180.7600 | -863.31 | -639.10 | 7340.84 | 862.87 | 2130.47 | 94.00 | 1.22 | -1.12 | -0.49 |
| | 8588.00 | 90.3300 | 180.8600 | -956.30 | -640.42 | 7340.68 | 955.85 | 2223.47 | 93.00 | 0.51 | 0.49 | 0.11 |
| | 8682.00 | 91.0100 | 181.5100 | -1050.27 | -642.36 | 7339.58 | 1049.83 | 2317.46 | 94.00 | 1.00 | 0.72 | 0.69 |
| | 8775.00 | 90.5500 | 180.6100 | -1143.25 | -644.08 | 7338.31 | 1142.80 | 2410.45 | 93.00 | 1.09 | -0.49 | -0.97 |
| | 8869.00 | 88.9200 | 179.7200 | -1237.24 | -644.35 | 7338.75 | 1236.79 | 2504.44 | 94.00 | 1.98 | -1.73 | -0.95 |
| | 8963.00 | 88.9500 | 179.5100 | -1331.23 | -643.72 | 7340.50 | 1330.78 | 2598.43 | 94.00 | 0.23 | 0.03 | -0.22 |
| | 9056.00 | 88.8600 | 179.3100 | -1424.20 | -642.76 | 7342.27 | 1423.75 | 2691.41 | 93.00 | 0.24 | -0.10 | -0.22 |
| | 9150.00 | 88.9200 | 179.2800 | -1518.18 | -641.61 | 7344.09 | 1517.73 | 2785.39 | 94.00 | 0.07 | 0.06 | -0.03 |
| | 9244.00 | 89.1600 | 178.8800 | -1612.15 | -640.10 | 7345.67 | 1611.71 | 2879.38 | 94.00 | 0.50 | 0.26 | -0.43 |
| | 9337.00 | 89.1300 | 178.8300 | -1705.12 | -638.24 | 7347.06 | 1704.68 | 2972.37 | 93.00 | 0.06 | -0.03 | -0.05 |
| | 9431.00 | 90.1200 | 179.7000 | -1799.11 | -637.04 | 7347.67 | 1798.67 | 3066.36 | 94.00 | 1.40 | 1.05 | 0.93 |
| | 9521.00 | 90.1500 | 179.8000 | -1889.11 | -636.64 | 7347.46 | 1888.67 | 3156.36 | 90.00 | 0.12 | 0.03 | 0.11 |
| | 9702.00 | 90.3300 | 179.6600 | -2070.11 | -635.79 | 7346.70 | 2069.66 | 3337.36 | 181.00 | 0.13 | 0.10 | -0.08 |
| | 9881.00 | 89.9300 | 180.3000 | -2249.11 | -635.73 | 7346.30 | 2248.66 | 3516.36 | 179.00 | 0.42 | -0.22 | 0.36 |
| | 9971.00 | 90.1200 | 178.4600 | -2339.10 | -634.75 | 7346.26 | 2338.65 | 3606.36 | 90.00 | 2.06 | 0.21 | -2.04 |
| | 10061.00 | 91.3500 | 178.5700 | -2429.06 | -632.42 | 7345.10 | 2428.61 | 3696.35 | 90.00 | 1.37 | 1.37 | 0.12 |
| | 10152.00 | 89.8700 | 178.5000 | -2520.02 | -630.10 | 7344.13 | 2519.58 | 3787.34 | 91.00 | 1.63 | -1.63 | -0.08 |
| | 10332.00 | 90.6400 | 178.7400 | -2699.96 | -625.76 | 7343.33 | 2699.53 | 3967.34 | 180.00 | 0.45 | 0.43 | 0.13 |
| | 10512.00 | 91.6000 | 179.0700 | -2879.89 | -622.32 | 7339.81 | 2879.46 | 4147.30 | 180.00 | 0.56 | 0.53 | 0.18 |
| | 10602.00 | 89.6600 | 178.6800 | -2969.87 | -620.55 | 7338.82 | 2969.43 | 4237.29 | 90.00 | 2.20 | -2.16 | -0.43 |
| | 10692.00 | 90.0600 | 179.0600 | -3059.85 | -618.78 | 7339.04 | 3059.42 | 4327.29 | 90.00 | 0.61 | 0.44 | 0.42 |
| | 10872.00 | 90.7700 | 179.4500 | -3239.83 | -616.44 | 7337.74 | 3239.40 | 4507.28 | 180.00 | 0.45 | 0.39 | 0.22 |
| | 10962.00 | 89.2500 | 178.6600 | -3329.81 | -614.95 | 7337.72 | 3329.38 | 4597.28 | 90.00 | 1.90 | -1.69 | -0.88 |
| | 11142.00 | 89.4400 | 178.7400 | -3509.75 | -610.87 | 7339.78 | 3509.33 | 4777.27 | 180.00 | 0.11 | 0.11 | 0.04 |
| | 11322.00 | 90.3000 | 179.3200 | -3689.73 | -607.82 | 7340.19 | 3689.30 | 4957.26 | 180.00 | 0.58 | 0.48 | 0.32 |
| | 11412.00 | 89.9000 | 179.9600 | -3779.72 | -607.26 | 7340.03 | 3779.30 | 5047.26 | 90.00 | 0.84 | -0.44 | 0.71 |
| | 11502.00 | 90.3600 | 180.2800 | -3869.72 | -607.45 | 7339.83 | 3869.30 | 5137.26 | 90.00 | 0.62 | 0.51 | 0.36 |
| | 11592.00 | 89.6300 | 180.2500 | -3959.72 | -607.86 | 7339.84 | 3959.29 | 5227.26 | 90.00 | 0.81 | -0.81 | -0.03 |
| | 11772.00 | 90.3000 | 181.1000 | -4139.70 | -609.98 | 7339.95 | 4139.28 | 5407.26 | 180.00 | 0.60 | 0.37 | 0.47 |
| | 11862.00 | 89.8400 | 180.8800 | -4229.69 | -611.54 | 7339.84 | 4229.26 | 5497.26 | 90.00 | 0.57 | -0.51 | -0.24 |
| | 11952.00 | 89.5600 | 180.9100 | -4319.68 | -612.94 | 7340.31 | 4319.25 | 5587.26 | 90.00 | 0.31 | -0.31 | 0.03 |
| | 12042.00 | 88.7600 | 181.0100 | -4409.66 | -614.45 | 7341.63 | 4409.23 | 5677.25 | 90.00 | 0.90 | -0.89 | 0.11 |
| | 12132.00 | 88.9200 | 181.2200 | -4499.62 | -616.20 | 7343.45 | 4499.19 | 5767.23 | 90.00 | 0.29 | 0.18 | 0.23 |
| | 12312.00 | 88.7900 | 181.3800 | -4679.54 | -620.29 | 7347.05 | 4679.10 | 5947.19 | 180.00 | 0.11 | -0.07 | 0.09 |
| | 12402.00 | 89.3200 | 181.3900 | -4769.50 | -622.46 | 7348.53 | 4769.06 | 6037.18 | 90.00 | 0.59 | 0.59 | 0.01 |
| | 12492.00 | 89.4700 | 181.5800 | -4859.46 | -624.79 | 7349.48 | 4859.03 | 6127.18 | 90.00 | 0.27 | 0.17 | 0.21 |
| | 12673.00 | 90.1200 | 181.7600 | -5040.38 | -630.07 | 7350.13 | 5039.94 | 6308.17 | 181.00 | 0.37 | 0.36 | 0.10 |
| | 12763.00 | 90.2700 | 181.7200 | -5130.34 | -632.80 | 7349.82 | 5129.90 | 6398.17 | 90.00 | 0.17 | 0.17 | -0.04 |
| | 12853.00 | 89.9600 | 181.2200 | -5220.31 | -635.11 | 7349.64 | 5219.87 | 6488.17 | 90.00 | 0.65 | -0.34 | -0.56 |
| | 12942.00 | 89.1000 | 180.2200 | -5309.30 | -636.23 | 7350.37 | 5308.85 | 6577.17 | 89.00 | 1.48 | -0.97 | -1.12 |
| | 13033.00 | 88.9100 | 180.2800 | -5400.29 | -636.63 | 7351.95 | 5399.84 | 6668.15 | 91.00 | 0.22 | -0.21 | 0.07 |
| | 13123.00 | 89.0100 | 179.7800 | -5490.27 | -636.67 | 7353.59 | 5489.82 | 6758.14 | 90.00 | 0.57 | 0.11 | -0.56 |
| | 13213.00 | 89.3800 | 180.0100 | -5580.26 | -636.51 | 7354.85 | 5579.82 | 6848.13 | 90.00 | 0.48 | 0.41 | 0.26 |
| | 13393.00 | 89.2800 | 179.8200 | -5760.25 | -636.24 | 7356.95 | 5759.80 | 7028.12 | 180.00 | 0.12 | -0.06 | -0.11 |
| | 13573.00 | 90.0300 | 179.9200 | -5940.24 | -635.83 | 7358.04 | 5939.80 | 7208.11 | 180.00 | 0.42 | 0.42 | 0.06 |
| | 13753.00 | 89.7200 | 180.2000 | -6120.24 | -636.02 | 7358.43 | 6119.80 | 7388.11 | 180.00 | 0.23 | -0.17 | 0.16 |
| | 13933.00 | 90.0000 | 179.9600 | -6300.24 | -636.27 | 7358.87 | 6299.80 | 7568.11 | 180.00 | 0.20 | 0.16 | -0.13 |
| | 14023.00 | 90.2700 | 180.1900 | -6390.24 | -636.39 | 7358.66 | 6389.80 | 7658.11 | 90.00 | 0.39 | 0.30 | 0.26 |
| | 14113.00 | 89.2300 | 179.7600 | -6480.24 | -636.35 | 7359.05 | 6479.79 | 7748.11 | 90.00 | 1.25 | -1.16 | -0.48 |
| | 14293.00 | 89.5000 | 179.7900 | -6660.23 | -635.64 | 7361.05 | 6659.78 | 7928.10 | 180.00 | 0.15 | 0.15 | 0.02 |
| | 14473.00 | 89.0700 | 179.5300 | -6840.21 | -634.58 | 7363.29 | 6839.76 | 8108.08 | 180.00 | 0.28 | -0.24 | -0.14 |
| | 14653.00 | 89.3800 | 179.6100 | -7020.19 | -633.22 | 7365.73 | 7019.74 | 8288.07 | 180.00 | 0.18 | 0.17 | 0.04 |
| | 14833.00 | 89.9600 | 180.0700 | -7200.18 | -632.72 | 7366.76 | 7199.74 | 8468.06 | 180.00 | 0.41 | 0.32 | 0.26 |
| | 15013.00 | 89.9300 | 180.2000 | -7380.18 | -633.15 | 7366.94 | 7379.74 | 8648.06 | 180.00 | 0.07 | -0.02 | 0.07 |
| | 15132.00 | 89.6900 | 180.0000 | -7499.18 | -633.35 | 7367.33 | 7498.74 | 8767.06 | 119.00 | 0.26 | -0.20 | -0.17 |
| Projection to TD: | | | | | | | | | | | | |
| | 15188.00 | 89.6900 | 180.0000 | -7555.18 | -633.35 | 7367.63 | 7554.74 | 8823.06 | 56.00 | 0.00 | 0.00 | 0.00 |