

NOBLE ENERGY, INC



Location: COLORADO Slot: SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07)
 Field: WELD COUNTY (NOBLE NAD 83 GRID) Well: Pioneer Y18-715
 Facility: SEC.07-T02N-R64W Wellbore: Pioneer Y18-715 PWB

Plot reference wellpath is PIONEER Y18-715 (REV-1.0) PWP
 True vertical depths are referenced to (4883'GL+30'KB@4913'RKB) (RKB)
 Reference wellpath measured depths are referenced to (4883'GL+30'KB@4913'RKB) (RKB)
 (4883'GL+30'KB@4913'RKB) (RKB) to Mean Sea Level: 4913 feet
 Mean Sea Level to Mud line (At Slot: SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07)): 0 feet
 Offset wellpath MDs are referenced to each path's default MD datum
 Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
 North Reference: Grid north
 Scale: True distance
 Coordinates are in feet referenced to Slot
 Depths are in feet
 Created by: gualtner on 2022-05-23; Database: WA_Denver

Location Information

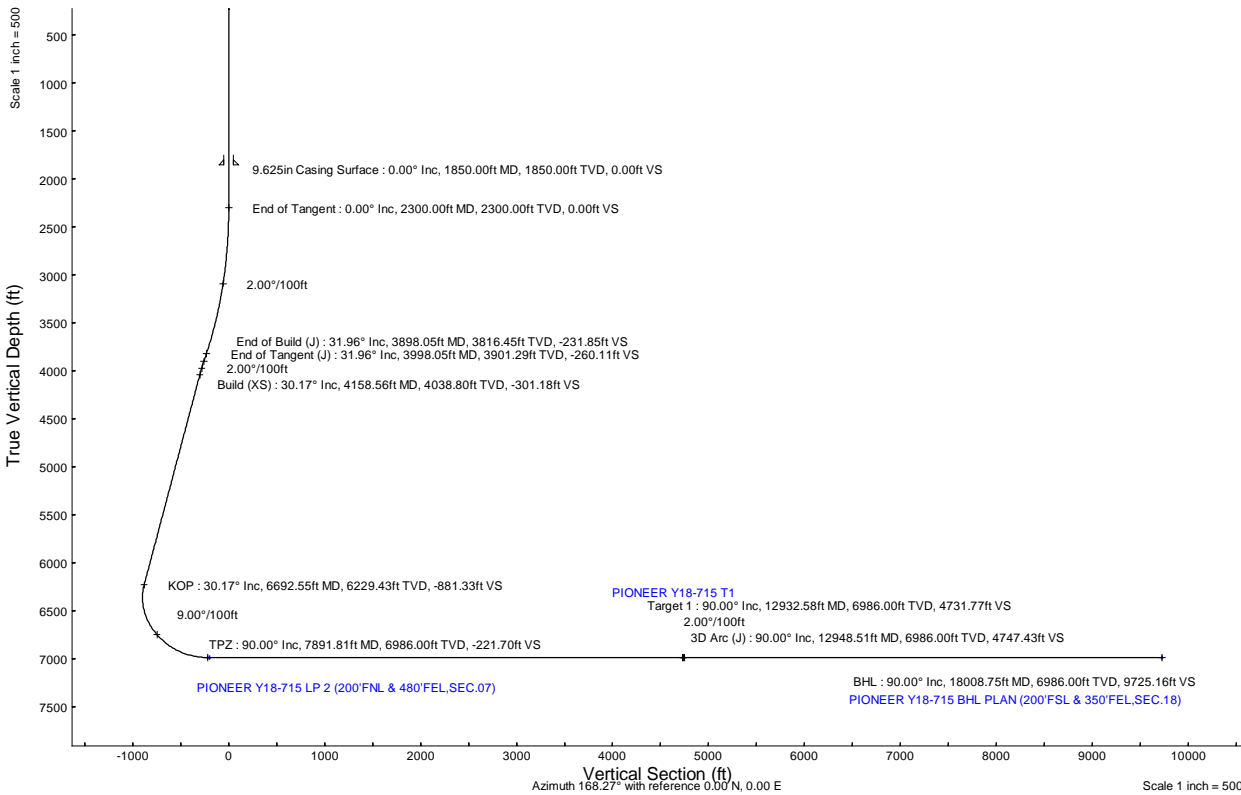
| Facility Name | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude | | |
|---|-------------------|--------------------|-------------------|--------------------|-----------------|------------------|
| SEC.07-T02N-R64W | 3252658.032 | 1301719.599 | 40°09'29.0880"N | 104°35'45.7080"W | | |
| Slot | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
| SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07) | -46.64 | 928.28 | 3253585.276 | 1301672.957 | 40°09'29.5338"N | 104°35'33.7848"W |
| (4883'GL+30'KB@4913'RKB) (RKB) to Mud line (At Slot: SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07)) | 4913ft | | | | | |
| Mean Sea Level to Mud line (At Slot: SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07)) | 0ft | | | | | |
| (4883'GL+30'KB@4913'RKB) (RKB) to Mean Sea Level | 4913ft | | | | | |

Targets

| Name | MD (ft) | TVD (ft) | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
|---|----------|----------|--------------|--------------|-------------------|--------------------|-----------------|------------------|
| PIONEER Y18-785 SECTION 18 | N/A | -2.00 | 44.20 | -808.86 | 3252776.45 | 1301717.15 | 40°09'29.0520"N | 104°35'44.1960"W |
| PIONEER Y18-785 SECTION 7 | N/A | -2.00 | 44.20 | -808.86 | 3252776.45 | 1301717.15 | 40°09'29.0520"N | 104°35'44.1960"W |
| PIONEER Y18-715 BHL PLAN (200'FSL & 350'FEL,SEC.18) | 18008.75 | 6986.00 | -9522.01 | 1977.41 | 3255562.60 | 1292151.37 | 40°07'54.2408"N | 104°35'9.5825"W |
| PIONEER Y18-715 LP 2 (200'FNL & 480'FEL,SEC.07) | 7891.81 | 6986.00 | 592.64 | 1763.45 | 3255348.65 | 1302265.57 | 40°09'34.2109"N | 104°35'10.9953"W |
| PIONEER Y18-715 LP PLAN (200'FNL & 350'FEL,SEC.07) | N/A | 6986.00 | 595.90 | 1893.48 | 3255478.67 | 1302268.83 | 40°09'34.2298"N | 104°35'9.3202"W |
| PIONEER Y18-715 T1 | 12932.58 | 6986.00 | -4447.29 | 1856.02 | 3255441.21 | 1297225.86 | 40°08'44.3992"N | 104°35'10.4720"W |
| SECTION LINES - SEC.06-T02N-R64W | N/A | 7996.00 | 5956.63 | -2903.24 | 3250982.16 | 1307629.53 | 40°10'27.6981"N | 104°36'10.3886"W |

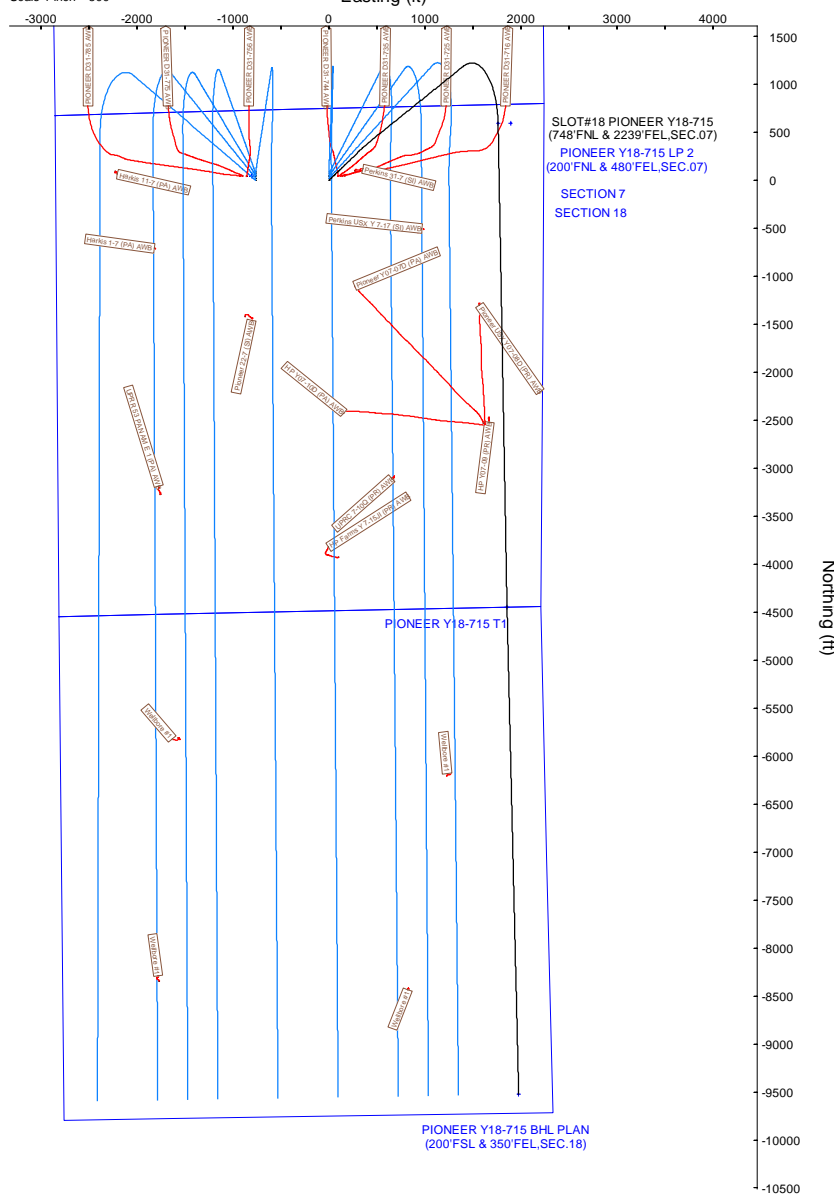
Bottom Hole Location

| MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
|----------|---------|---------|----------|--------------|--------------|-------------------|--------------------|-----------------|-----------------|
| 18008.75 | 90.000 | 178.629 | 6986.00 | -9522.01 | 1977.41 | 3255562.60 | 1292151.37 | 40°07'54.2408"N | 104°35'9.5825"W |



Well Profile Data

| Design Comment | MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
|--------------------|----------|---------|---------|----------|--------------|--------------|---------------|---------|
| SHL | 30.00 | 0.000 | 46.000 | 30.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| End of Tangent | 2300.00 | 0.000 | 46.000 | 2300.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| End of Build (J) | 3898.05 | 31.961 | 46.000 | 3816.45 | 301.67 | 312.39 | 2.00 | -231.85 |
| End of Tangent (J) | 3998.05 | 31.961 | 46.000 | 3901.29 | 338.45 | 350.47 | 0.00 | -260.11 |
| Build (XS) | 4158.56 | 30.174 | 51.172 | 4038.80 | 393.26 | 412.47 | 2.00 | -301.18 |
| KOP | 6692.55 | 30.174 | 51.172 | 6229.43 | 1191.84 | 1404.70 | 0.00 | -881.33 |
| TPZ | 7891.81 | 90.000 | 178.948 | 6986.00 | 592.64 | 1763.45 | 9.00 | -221.70 |
| Target 1 | 12932.58 | 90.000 | 178.948 | 6986.00 | -4447.29 | 1856.02 | 0.00 | 4731.77 |
| 3D Arc (J) | 12948.51 | 90.000 | 178.629 | 6986.00 | -4463.21 | 1856.36 | 2.00 | 4747.43 |
| BHL | 18008.75 | 90.000 | 178.629 | 6986.00 | -9522.01 | 1977.41 | 0.00 | 9725.16 |





Planned Wellpath Report

PIONEER Y18-715 (REV-1.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---|-----------|---------------------|
| Operator | NOBLE ENERGY, INC | Well | Pioneer Y18-715 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T02N-R64W | Wellbore | Pioneer Y18-715 PWB |
| Slot | SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07) | | |

REPORT SETUP INFORMATION

| | | | |
|---------------------|---|------------------|-------------------------|
| Projection System | NAD83 / Lambert Colorado SP, Northern Zone (501), US feet | Software System | WellArchitect® 6.0 |
| North Reference | Grid | User | Guenaler |
| Scale | 0.999958 | Report Generated | 5/23/2022 at 7:29:45 AM |
| Convergence at slot | 0.59° East | Database | WellArchitectDB |

WELLPATH LOCATION

| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|------------------|
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | -46.64 | 926.28 | 3253585.28 | 1301672.96 | 40°09'28.5336"N | 104°35'33.7848"W |
| Facility Reference Pt | | | 3252659.03 | 1301719.60 | 40°09'29.0880"N | 104°35'45.7080"W |
| Field Reference Pt | | | 3000000.00 | 4454105.15 | 48°46'34.3150"N | 105°30'0.0000"W |

WELLPATH DATUM

| | | | |
|--------------------------|--------------------------------|--|-------------------|
| Calculation method | Minimum curvature | (4883'GL+30'KB@4913'RKB) (RKB) to Facility Vertical Datum | 4913.00ft |
| Horizontal Reference Pt | Slot | (4883'GL+30'KB@4913'RKB) (RKB) to Mean Sea Level | 4913.00ft |
| Vertical Reference Pt | (4883'GL+30'KB@4913'RKB) (RKB) | (4883'GL+30'KB@4913'RKB) (RKB) to Mud Line at Slot (SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07)) | 4913.00ft |
| MD Reference Pt | (4883'GL+30'KB@4913'RKB) (RKB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 168.27° |



Planned Wellpath Report

PIONEER Y18-715 (REV-1.0) PWP
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---|-----------|---------------------|
| Operator | NOBLE ENERGY, INC | Well | Pioneer Y18-715 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T02N-R64W | Wellbore | Pioneer Y18-715 PWB |
| Slot | SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07) | | |

| WELLPATH DATA (190 stations) † = interpolated, ‡ = extrapolated station | | | | | | | | | | |
|---|-----------------|-------------|----------|----------------|------------|-----------|-----------------|------------------|---------------|--------------------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 0.00† | 0.000 | 46.000 | 0.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 30.00 | 0.000 | 46.000 | 30.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | SHL |
| 130.00† | 0.000 | 46.000 | 130.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 230.00† | 0.000 | 46.000 | 230.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 330.00† | 0.000 | 46.000 | 330.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 430.00† | 0.000 | 46.000 | 430.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 530.00† | 0.000 | 46.000 | 530.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 630.00† | 0.000 | 46.000 | 630.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 730.00† | 0.000 | 46.000 | 730.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 830.00† | 0.000 | 46.000 | 830.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 930.00† | 0.000 | 46.000 | 930.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 1030.00† | 0.000 | 46.000 | 1030.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 1130.00† | 0.000 | 46.000 | 1130.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 1230.00† | 0.000 | 46.000 | 1230.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 1330.00† | 0.000 | 46.000 | 1330.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 1430.00† | 0.000 | 46.000 | 1430.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 1530.00† | 0.000 | 46.000 | 1530.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 1630.00† | 0.000 | 46.000 | 1630.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 1730.00† | 0.000 | 46.000 | 1730.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 1830.00† | 0.000 | 46.000 | 1830.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 1930.00† | 0.000 | 46.000 | 1930.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 2030.00† | 0.000 | 46.000 | 2030.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 2130.00† | 0.000 | 46.000 | 2130.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 2230.00† | 0.000 | 46.000 | 2230.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | |
| 2300.00 | 0.000 | 46.000 | 2300.00 | 0.00 | 0.00 | 0.00 | 40°09'28.5336"N | 104°35'33.7848"W | 0.00 | End of Tangent |
| 2330.00† | 0.600 | 46.000 | 2330.00 | -0.08 | 0.11 | 0.11 | 40°09'28.5347"N | 104°35'33.7833"W | 2.00 | |
| 2430.00† | 2.600 | 46.000 | 2429.96 | -1.57 | 2.05 | 2.12 | 40°09'28.5536"N | 104°35'33.7572"W | 2.00 | |
| 2530.00† | 4.600 | 46.000 | 2529.75 | -4.93 | 6.41 | 6.64 | 40°09'28.5963"N | 104°35'33.6985"W | 2.00 | |
| 2630.00† | 6.600 | 46.000 | 2629.27 | -10.14 | 13.19 | 13.66 | 40°09'28.6625"N | 104°35'33.6072"W | 2.00 | |
| 2730.00† | 8.600 | 46.000 | 2728.39 | -17.20 | 22.38 | 23.17 | 40°09'28.7524"N | 104°35'33.4834"W | 2.00 | |
| 2830.00† | 10.600 | 46.000 | 2826.98 | -26.10 | 33.96 | 35.17 | 40°09'28.8656"N | 104°35'33.3274"W | 2.00 | |
| 2930.00† | 12.600 | 46.000 | 2924.93 | -36.83 | 47.93 | 49.63 | 40°09'29.0022"N | 104°35'33.1393"W | 2.00 | |
| 3030.00† | 14.600 | 46.000 | 3022.13 | -49.39 | 64.26 | 66.54 | 40°09'29.1619"N | 104°35'32.9193"W | 2.00 | |
| 3130.00† | 16.600 | 46.000 | 3118.44 | -63.74 | 82.94 | 85.89 | 40°09'29.3445"N | 104°35'32.6678"W | 2.00 | |
| 3230.00† | 18.600 | 46.000 | 3213.75 | -79.89 | 103.94 | 107.64 | 40°09'29.5498"N | 104°35'32.3849"W | 2.00 | |
| 3330.00† | 20.600 | 46.000 | 3307.95 | -97.79 | 127.24 | 131.77 | 40°09'29.7776"N | 104°35'32.0711"W | 2.00 | |
| 3430.00† | 22.600 | 46.000 | 3400.93 | -117.45 | 152.82 | 158.25 | 40°09'30.0276"N | 104°35'31.7267"W | 2.00 | |
| 3530.00† | 24.600 | 46.000 | 3492.56 | -138.82 | 180.62 | 187.04 | 40°09'30.2995"N | 104°35'31.3521"W | 2.00 | |
| 3630.00† | 26.600 | 46.000 | 3582.74 | -161.89 | 210.64 | 218.12 | 40°09'30.5930"N | 104°35'30.9479"W | 2.00 | |
| 3730.00† | 28.600 | 46.000 | 3671.35 | -186.62 | 242.82 | 251.45 | 40°09'30.9076"N | 104°35'30.5145"W | 2.00 | |
| 3830.00† | 30.600 | 46.000 | 3758.30 | -212.99 | 277.13 | 286.98 | 40°09'31.2430"N | 104°35'30.0524"W | 2.00 | |
| 3898.05 | 31.961 | 46.000 | 3816.45 | -231.85 | 301.67 | 312.39 | 40°09'31.4830"N | 104°35'29.7218"W | 2.00 | End of Build (J) |
| 3930.00† | 31.961 | 46.000 | 3843.56 | -240.88 | 313.42 | 324.56 | 40°09'31.5979"N | 104°35'29.5636"W | 0.00 | |
| 3998.05 | 31.961 | 46.000 | 3901.29 | -260.11 | 338.45 | 350.47 | 40°09'31.8425"N | 104°35'29.2265"W | 0.00 | End of Tangent (J) |
| 4030.00† | 31.589 | 46.987 | 3928.46 | -268.97 | 350.03 | 362.67 | 40°09'31.9557"N | 104°35'29.0679"W | 2.00 | |

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---|-----------|---------------------|
| Operator | NOBLE ENERGY, INC | Well | Pioneer Y18-715 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T02N-R64W | Wellbore | Pioneer Y18-715 PWB |
| Slot | SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07) | | |

WELLPATH DATA (190 stations) † = interpolated, ‡ = extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|----------|-----------------|-------------|----------------------|----------------|------------|-----------|-----------------|------------------|---------------|------------|
| 4130.00† | 30.477 | 50.212 | 4014.15 | -294.50 | 384.13 | 401.31 | 40°09'32.2888"N | 104°35'28.5657"W | 2.00 | |
| 4158.56 | 30.174 | 51.172 | 4038.80 | -301.18 | 393.26 | 412.47 | 40°09'32.3779"N | 104°35'28.4208"W | 2.00 | Build (XS) |
| 4230.00† | 30.174 | 51.172 | 4100.56 | -317.54 | 415.78 | 440.44 | 40°09'32.5975"N | 104°35'28.0576"W | 0.00 | |
| 4330.00† | 30.174 | 51.172 | 4187.01 | -340.43 | 447.29 | 479.60 | 40°09'32.9050"N | 104°35'27.5491"W | 0.00 | |
| 4430.00† | 30.174 | 51.172 | 4273.46 | -363.33 | 478.81 | 518.76 | 40°09'33.2124"N | 104°35'27.0407"W | 0.00 | |
| 4530.00† | 30.174 | 51.172 | 4359.91 | -386.22 | 510.32 | 557.91 | 40°09'33.5199"N | 104°35'26.5322"W | 0.00 | |
| 4630.00† | 30.174 | 51.172 | 4446.36 | -409.12 | 541.84 | 597.07 | 40°09'33.8273"N | 104°35'26.0237"W | 0.00 | |
| 4730.00† | 30.174 | 51.172 | 4532.81 | -432.01 | 573.35 | 636.23 | 40°09'34.1348"N | 104°35'25.5153"W | 0.00 | |
| 4830.00† | 30.174 | 51.172 | 4619.26 | -454.90 | 604.87 | 675.38 | 40°09'34.4422"N | 104°35'25.0068"W | 0.00 | |
| 4930.00† | 30.174 | 51.172 | 4705.71 | -477.80 | 636.38 | 714.54 | 40°09'34.7497"N | 104°35'24.4984"W | 0.00 | |
| 5030.00† | 30.174 | 51.172 | 4792.16 | -500.69 | 667.89 | 753.70 | 40°09'35.0571"N | 104°35'23.9899"W | 0.00 | |
| 5130.00† | 30.174 | 51.172 | 4878.61 | -523.59 | 699.41 | 792.85 | 40°09'35.3645"N | 104°35'23.4814"W | 0.00 | |
| 5230.00† | 30.174 | 51.172 | 4965.06 | -546.48 | 730.92 | 832.01 | 40°09'35.6720"N | 104°35'22.9730"W | 0.00 | |
| 5330.00† | 30.174 | 51.172 | 5051.51 | -569.38 | 762.44 | 871.17 | 40°09'35.9794"N | 104°35'22.4645"W | 0.00 | |
| 5430.00† | 30.174 | 51.172 | 5137.96 | -592.27 | 793.95 | 910.32 | 40°09'36.2869"N | 104°35'21.9560"W | 0.00 | |
| 5530.00† | 30.174 | 51.172 | 5224.41 | -615.17 | 825.47 | 949.48 | 40°09'36.5943"N | 104°35'21.4476"W | 0.00 | |
| 5630.00† | 30.174 | 51.172 | 5310.86 | -638.06 | 856.98 | 988.64 | 40°09'36.9018"N | 104°35'20.9391"W | 0.00 | |
| 5730.00† | 30.174 | 51.172 | 5397.31 | -660.96 | 888.50 | 1027.79 | 40°09'37.2092"N | 104°35'20.4306"W | 0.00 | |
| 5830.00† | 30.174 | 51.172 | 5483.76 | -683.85 | 920.01 | 1066.95 | 40°09'37.5166"N | 104°35'19.9221"W | 0.00 | |
| 5930.00† | 30.174 | 51.172 | 5570.21 | -706.75 | 951.53 | 1106.11 | 40°09'37.8241"N | 104°35'19.4137"W | 0.00 | |
| 6030.00† | 30.174 | 51.172 | 5656.66 | -729.64 | 983.04 | 1145.26 | 40°09'38.1315"N | 104°35'18.9052"W | 0.00 | |
| 6130.00† | 30.174 | 51.172 | 5743.11 | -752.54 | 1014.56 | 1184.42 | 40°09'38.4389"N | 104°35'18.3967"W | 0.00 | |
| 6230.00† | 30.174 | 51.172 | 5829.56 | -775.43 | 1046.07 | 1223.58 | 40°09'38.7464"N | 104°35'17.8882"W | 0.00 | |
| 6330.00† | 30.174 | 51.172 | 5916.01 | -798.33 | 1077.59 | 1262.73 | 40°09'39.0538"N | 104°35'17.3797"W | 0.00 | |
| 6430.00† | 30.174 | 51.172 | 6002.46 | -821.22 | 1109.10 | 1301.89 | 40°09'39.3612"N | 104°35'16.8713"W | 0.00 | |
| 6530.00† | 30.174 | 51.172 | 6088.91 | -844.11 | 1140.62 | 1341.05 | 40°09'39.6687"N | 104°35'16.3628"W | 0.00 | |
| 6630.00† | 30.174 | 51.172 | 6175.36 | -867.01 | 1172.13 | 1380.20 | 40°09'39.9761"N | 104°35'15.8543"W | 0.00 | |
| 6692.55 | 30.174 | 51.172 | 6229.43 | -881.33 | 1191.84 | 1404.70 | 40°09'40.1684"N | 104°35'15.5362"W | 0.00 | KOP |
| 6730.00† | 28.424 | 57.061 | 6262.09 | -888.84 | 1202.59 | 1419.51 | 40°09'40.2731"N | 104°35'15.3440"W | 9.00 | |
| 6830.00† | 25.262 | 75.819 | 6351.47 | -898.38 | 1220.80 | 1460.26 | 40°09'40.4489"N | 104°35'14.8168"W | 9.00 | |
| 6930.00† | 24.905 | 97.134 | 6442.22 | -892.48 | 1223.42 | 1501.93 | 40°09'40.4705"N | 104°35'14.2798"W | 9.00 | |
| 7030.00† | 27.462 | 116.789 | 6532.13 | -871.26 | 1210.38 | 1543.49 | 40°09'40.3375"N | 104°35'13.7463"W | 9.00 | |
| 7130.00† | 32.244 | 132.186 | 6618.96 | -835.27 | 1182.02 | 1583.92 | 40°09'40.0531"N | 104°35'13.2293"W | 9.00 | |
| 7230.00† | 38.426 | 143.547 | 6700.59 | -785.38 | 1139.02 | 1622.23 | 40°09'39.6243"N | 104°35'12.7416"W | 9.00 | |
| 7330.00† | 45.432 | 152.032 | 6775.00 | -722.82 | 1082.45 | 1657.47 | 40°09'39.0617"N | 104°35'12.2952"W | 9.00 | |
| 7430.00† | 52.927 | 158.631 | 6840.36 | -649.14 | 1013.70 | 1688.78 | 40°09'38.3791"N | 104°35'11.9011"W | 9.00 | |
| 7530.00† | 60.722 | 164.016 | 6895.07 | -566.15 | 934.45 | 1715.38 | 40°09'37.5934"N | 104°35'11.5691"W | 9.00 | |
| 7630.00† | 68.701 | 168.627 | 6937.77 | -475.89 | 846.68 | 1736.62 | 40°09'36.7239"N | 104°35'11.3072"W | 9.00 | |
| 7730.00† | 76.793 | 172.757 | 6967.42 | -380.58 | 752.52 | 1751.97 | 40°09'35.7919"N | 104°35'11.1219"W | 9.00 | |
| 7830.00† | 84.947 | 176.619 | 6983.28 | -282.57 | 654.31 | 1761.06 | 40°09'34.8205"N | 104°35'11.0178"W | 9.00 | |
| 7891.81 | 90.000 | 178.948 | 6986.00 [†] | -221.70 | 592.64 | 1763.45 | 40°09'34.2109"N | 104°35'10.9953"W | 9.00 | TPZ |
| 7930.00† | 90.000 | 178.948 | 6986.00 | -184.17 | 554.45 | 1764.15 | 40°09'33.8334"N | 104°35'10.9913"W | 0.00 | |
| 8030.00† | 90.000 | 178.948 | 6986.00 | -85.90 | 454.47 | 1765.99 | 40°09'32.8453"N | 104°35'10.9809"W | 0.00 | |
| 8130.00† | 90.000 | 178.948 | 6986.00 | 12.37 | 354.48 | 1767.82 | 40°09'31.8571"N | 104°35'10.9705"W | 0.00 | |
| 8230.00† | 90.000 | 178.948 | 6986.00 | 110.64 | 254.50 | 1769.66 | 40°09'30.8689"N | 104°35'10.9602"W | 0.00 | |



Planned Wellpath Report

PIONEER Y18-715 (REV-1.0) PWP
Page 4 of 7



| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---|-----------|---------------------|
| Operator | NOBLE ENERGY, INC | Well | Pioneer Y18-715 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T02N-R64W | Wellbore | Pioneer Y18-715 PWB |
| Slot | SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07) | | |

| WELLPATH DATA (190 stations) † = interpolated, ‡ = extrapolated station | | | | | | | | | | |
|---|-----------------|-------------|----------|----------------|------------|-----------|-----------------|------------------|---------------|----------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS ["/100ft] | Comments |
| 8330.00† | 90.000 | 178.948 | 6986.00 | 208.91 | 154.52 | 1771.50 | 40°09'29.8807"N | 104°35'10.9498"W | 0.00 | |
| 8430.00† | 90.000 | 178.948 | 6986.00 | 307.17 | 54.54 | 1773.33 | 40°09'28.8926"N | 104°35'10.9394"W | 0.00 | |
| 8530.00† | 90.000 | 178.948 | 6986.00 | 405.44 | -45.45 | 1775.17 | 40°09'27.9044"N | 104°35'10.9290"W | 0.00 | |
| 8630.00† | 90.000 | 178.948 | 6986.00 | 503.71 | -145.43 | 1777.01 | 40°09'26.9162"N | 104°35'10.9186"W | 0.00 | |
| 8730.00† | 90.000 | 178.948 | 6986.00 | 601.98 | -245.41 | 1778.84 | 40°09'25.9280"N | 104°35'10.9082"W | 0.00 | |
| 8830.00† | 90.000 | 178.948 | 6986.00 | 700.25 | -345.40 | 1780.68 | 40°09'24.9399"N | 104°35'10.8979"W | 0.00 | |
| 8930.00† | 90.000 | 178.948 | 6986.00 | 798.51 | -445.38 | 1782.52 | 40°09'23.9517"N | 104°35'10.8875"W | 0.00 | |
| 9030.00† | 90.000 | 178.948 | 6986.00 | 896.78 | -545.36 | 1784.35 | 40°09'22.9635"N | 104°35'10.8771"W | 0.00 | |
| 9130.00† | 90.000 | 178.948 | 6986.00 | 995.05 | -645.35 | 1786.19 | 40°09'21.9754"N | 104°35'10.8667"W | 0.00 | |
| 9230.00† | 90.000 | 178.948 | 6986.00 | 1093.32 | -745.33 | 1788.02 | 40°09'20.9872"N | 104°35'10.8563"W | 0.00 | |
| 9330.00† | 90.000 | 178.948 | 6986.00 | 1191.59 | -845.31 | 1789.86 | 40°09'19.9990"N | 104°35'10.8459"W | 0.00 | |
| 9430.00† | 90.000 | 178.948 | 6986.00 | 1289.85 | -945.30 | 1791.70 | 40°09'19.0108"N | 104°35'10.8356"W | 0.00 | |
| 9530.00† | 90.000 | 178.948 | 6986.00 | 1388.12 | -1045.28 | 1793.53 | 40°09'18.0227"N | 104°35'10.8252"W | 0.00 | |
| 9630.00† | 90.000 | 178.948 | 6986.00 | 1486.39 | -1145.26 | 1795.37 | 40°09'17.0345"N | 104°35'10.8148"W | 0.00 | |
| 9730.00† | 90.000 | 178.948 | 6986.00 | 1584.66 | -1245.25 | 1797.21 | 40°09'16.0463"N | 104°35'10.8044"W | 0.00 | |
| 9830.00† | 90.000 | 178.948 | 6986.00 | 1682.93 | -1345.23 | 1799.04 | 40°09'15.0581"N | 104°35'10.7940"W | 0.00 | |
| 9930.00† | 90.000 | 178.948 | 6986.00 | 1781.19 | -1445.21 | 1800.88 | 40°09'14.0700"N | 104°35'10.7836"W | 0.00 | |
| 10030.00† | 90.000 | 178.948 | 6986.00 | 1879.46 | -1545.20 | 1802.72 | 40°09'13.0818"N | 104°35'10.7733"W | 0.00 | |
| 10130.00† | 90.000 | 178.948 | 6986.00 | 1977.73 | -1645.18 | 1804.55 | 40°09'12.0936"N | 104°35'10.7629"W | 0.00 | |
| 10230.00† | 90.000 | 178.948 | 6986.00 | 2076.00 | -1745.16 | 1806.39 | 40°09'11.1054"N | 104°35'10.7525"W | 0.00 | |
| 10330.00† | 90.000 | 178.948 | 6986.00 | 2174.26 | -1845.14 | 1808.22 | 40°09'10.1173"N | 104°35'10.7421"W | 0.00 | |
| 10430.00† | 90.000 | 178.948 | 6986.00 | 2272.53 | -1945.13 | 1810.06 | 40°09'9.1291"N | 104°35'10.7317"W | 0.00 | |
| 10530.00† | 90.000 | 178.948 | 6986.00 | 2370.80 | -2045.11 | 1811.90 | 40°09'8.1409"N | 104°35'10.7214"W | 0.00 | |
| 10630.00† | 90.000 | 178.948 | 6986.00 | 2469.07 | -2145.09 | 1813.73 | 40°09'7.1527"N | 104°35'10.7110"W | 0.00 | |
| 10730.00† | 90.000 | 178.948 | 6986.00 | 2567.34 | -2245.08 | 1815.57 | 40°09'6.1646"N | 104°35'10.7006"W | 0.00 | |
| 10830.00† | 90.000 | 178.948 | 6986.00 | 2665.60 | -2345.06 | 1817.41 | 40°09'5.1764"N | 104°35'10.6902"W | 0.00 | |
| 10930.00† | 90.000 | 178.948 | 6986.00 | 2763.87 | -2445.04 | 1819.24 | 40°09'4.1882"N | 104°35'10.6798"W | 0.00 | |
| 11030.00† | 90.000 | 178.948 | 6986.00 | 2862.14 | -2545.03 | 1821.08 | 40°09'3.2001"N | 104°35'10.6695"W | 0.00 | |
| 11130.00† | 90.000 | 178.948 | 6986.00 | 2960.41 | -2645.01 | 1822.92 | 40°09'2.2119"N | 104°35'10.6591"W | 0.00 | |
| 11230.00† | 90.000 | 178.948 | 6986.00 | 3058.68 | -2744.99 | 1824.75 | 40°09'1.2237"N | 104°35'10.6487"W | 0.00 | |
| 11330.00† | 90.000 | 178.948 | 6986.00 | 3156.94 | -2844.98 | 1826.59 | 40°09'0.2355"N | 104°35'10.6383"W | 0.00 | |
| 11430.00† | 90.000 | 178.948 | 6986.00 | 3255.21 | -2944.96 | 1828.43 | 40°08'59.2474"N | 104°35'10.6279"W | 0.00 | |
| 11530.00† | 90.000 | 178.948 | 6986.00 | 3353.48 | -3044.94 | 1830.26 | 40°08'58.2592"N | 104°35'10.6175"W | 0.00 | |
| 11630.00† | 90.000 | 178.948 | 6986.00 | 3451.75 | -3144.93 | 1832.10 | 40°08'57.2710"N | 104°35'10.6072"W | 0.00 | |
| 11730.00† | 90.000 | 178.948 | 6986.00 | 3550.02 | -3244.91 | 1833.93 | 40°08'56.2828"N | 104°35'10.5968"W | 0.00 | |
| 11830.00† | 90.000 | 178.948 | 6986.00 | 3648.28 | -3344.89 | 1835.77 | 40°08'55.2947"N | 104°35'10.5864"W | 0.00 | |
| 11930.00† | 90.000 | 178.948 | 6986.00 | 3746.55 | -3444.87 | 1837.61 | 40°08'54.3065"N | 104°35'10.5760"W | 0.00 | |
| 12030.00† | 90.000 | 178.948 | 6986.00 | 3844.82 | -3544.86 | 1839.44 | 40°08'53.3183"N | 104°35'10.5656"W | 0.00 | |
| 12130.00† | 90.000 | 178.948 | 6986.00 | 3943.09 | -3644.84 | 1841.28 | 40°08'52.3301"N | 104°35'10.5553"W | 0.00 | |
| 12230.00† | 90.000 | 178.948 | 6986.00 | 4041.36 | -3744.82 | 1843.12 | 40°08'51.3420"N | 104°35'10.5449"W | 0.00 | |
| 12330.00† | 90.000 | 178.948 | 6986.00 | 4139.62 | -3844.81 | 1844.95 | 40°08'50.3538"N | 104°35'10.5345"W | 0.00 | |
| 12430.00† | 90.000 | 178.948 | 6986.00 | 4237.89 | -3944.79 | 1846.79 | 40°08'49.3656"N | 104°35'10.5241"W | 0.00 | |
| 12530.00† | 90.000 | 178.948 | 6986.00 | 4336.16 | -4044.77 | 1848.63 | 40°08'48.3774"N | 104°35'10.5137"W | 0.00 | |
| 12630.00† | 90.000 | 178.948 | 6986.00 | 4434.43 | -4144.76 | 1850.46 | 40°08'47.3893"N | 104°35'10.5034"W | 0.00 | |
| 12730.00† | 90.000 | 178.948 | 6986.00 | 4532.70 | -4244.74 | 1852.30 | 40°08'46.4011"N | 104°35'10.4930"W | 0.00 | |



Planned Wellpath Report

PIONEER Y18-715 (REV-1.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---|-----------|---------------------|
| Operator | NOBLE ENERGY, INC | Well | Pioneer Y18-715 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T02N-R64W | Wellbore | Pioneer Y18-715 PWB |
| Slot | SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07) | | |

WELLPATH DATA (190 stations) † = interpolated, ‡ = extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|-----------|-----------------|-------------|----------|----------------|------------|-----------|-----------------|------------------|---------------|------------|
| 12830.00† | 90.000 | 178.948 | 6986.00 | 4630.96 | -4344.72 | 1854.14 | 40°08'45.4129"N | 104°35'10.4826"W | 0.00 | |
| 12930.00† | 90.000 | 178.948 | 6986.00 | 4729.23 | -4444.71 | 1855.97 | 40°08'44.4247"N | 104°35'10.4722"W | 0.00 | |
| 12932.58 | 90.000 | 178.948 | 6986.00‡ | 4731.77 | -4447.29 | 1856.02 | 40°08'44.3992"N | 104°35'10.4720"W | 0.00 | Target 1 |
| 12948.51 | 90.000 | 178.629 | 6986.00 | 4747.43 | -4463.21 | 1856.36 | 40°08'44.2419"N | 104°35'10.4697"W | 2.00 | 3D Arc (J) |
| 13030.00† | 90.000 | 178.629 | 6986.00 | 4827.59 | -4544.68 | 1858.31 | 40°08'43.4366"N | 104°35'10.4554"W | 0.00 | |
| 13130.00† | 90.000 | 178.629 | 6986.00 | 4925.96 | -4644.65 | 1860.70 | 40°08'42.4485"N | 104°35'10.4379"W | 0.00 | |
| 13230.00† | 90.000 | 178.629 | 6986.00 | 5024.33 | -4744.62 | 1863.09 | 40°08'41.4604"N | 104°35'10.4204"W | 0.00 | |
| 13330.00† | 90.000 | 178.629 | 6986.00 | 5122.70 | -4844.59 | 1865.48 | 40°08'40.4723"N | 104°35'10.4028"W | 0.00 | |
| 13430.00† | 90.000 | 178.629 | 6986.00 | 5221.07 | -4944.56 | 1867.87 | 40°08'39.4842"N | 104°35'10.3853"W | 0.00 | |
| 13530.00† | 90.000 | 178.629 | 6986.00 | 5319.44 | -5044.54 | 1870.27 | 40°08'38.4960"N | 104°35'10.3678"W | 0.00 | |
| 13630.00† | 90.000 | 178.629 | 6986.00 | 5417.81 | -5144.51 | 1872.66 | 40°08'37.5079"N | 104°35'10.3502"W | 0.00 | |
| 13730.00† | 90.000 | 178.629 | 6986.00 | 5516.18 | -5244.48 | 1875.05 | 40°08'36.5198"N | 104°35'10.3327"W | 0.00 | |
| 13830.00† | 90.000 | 178.629 | 6986.00 | 5614.55 | -5344.45 | 1877.44 | 40°08'35.5317"N | 104°35'10.3151"W | 0.00 | |
| 13930.00† | 90.000 | 178.629 | 6986.00 | 5712.91 | -5444.42 | 1879.84 | 40°08'34.5436"N | 104°35'10.2976"W | 0.00 | |
| 14030.00† | 90.000 | 178.629 | 6986.00 | 5811.28 | -5544.39 | 1882.23 | 40°08'33.5555"N | 104°35'10.2801"W | 0.00 | |
| 14130.00† | 90.000 | 178.629 | 6986.00 | 5909.65 | -5644.36 | 1884.62 | 40°08'32.5673"N | 104°35'10.2625"W | 0.00 | |
| 14230.00† | 90.000 | 178.629 | 6986.00 | 6008.02 | -5744.34 | 1887.01 | 40°08'31.5792"N | 104°35'10.2450"W | 0.00 | |
| 14330.00† | 90.000 | 178.629 | 6986.00 | 6106.39 | -5844.31 | 1889.40 | 40°08'30.5911"N | 104°35'10.2275"W | 0.00 | |
| 14430.00† | 90.000 | 178.629 | 6986.00 | 6204.76 | -5944.28 | 1891.80 | 40°08'29.6030"N | 104°35'10.2099"W | 0.00 | |
| 14530.00† | 90.000 | 178.629 | 6986.00 | 6303.13 | -6044.25 | 1894.19 | 40°08'28.6149"N | 104°35'10.1924"W | 0.00 | |
| 14630.00† | 90.000 | 178.629 | 6986.00 | 6401.50 | -6144.22 | 1896.58 | 40°08'27.6268"N | 104°35'10.1749"W | 0.00 | |
| 14730.00† | 90.000 | 178.629 | 6986.00 | 6499.87 | -6244.19 | 1898.97 | 40°08'26.6387"N | 104°35'10.1573"W | 0.00 | |
| 14830.00† | 90.000 | 178.629 | 6986.00 | 6598.24 | -6344.16 | 1901.36 | 40°08'25.6505"N | 104°35'10.1398"W | 0.00 | |
| 14930.00† | 90.000 | 178.629 | 6986.00 | 6696.61 | -6444.14 | 1903.76 | 40°08'24.6624"N | 104°35'10.1223"W | 0.00 | |
| 15030.00† | 90.000 | 178.629 | 6986.00 | 6794.98 | -6544.11 | 1906.15 | 40°08'23.6743"N | 104°35'10.1047"W | 0.00 | |
| 15130.00† | 90.000 | 178.629 | 6986.00 | 6893.35 | -6644.08 | 1908.54 | 40°08'22.6862"N | 104°35'10.0872"W | 0.00 | |
| 15230.00† | 90.000 | 178.629 | 6986.00 | 6991.72 | -6744.05 | 1910.93 | 40°08'21.6981"N | 104°35'10.0697"W | 0.00 | |
| 15330.00† | 90.000 | 178.629 | 6986.00 | 7090.09 | -6844.02 | 1913.33 | 40°08'20.7100"N | 104°35'10.0521"W | 0.00 | |
| 15430.00† | 90.000 | 178.629 | 6986.00 | 7188.46 | -6943.99 | 1915.72 | 40°08'19.7218"N | 104°35'10.0346"W | 0.00 | |
| 15530.00† | 90.000 | 178.629 | 6986.00 | 7286.83 | -7043.96 | 1918.11 | 40°08'18.7337"N | 104°35'10.0170"W | 0.00 | |
| 15630.00† | 90.000 | 178.629 | 6986.00 | 7385.20 | -7143.93 | 1920.50 | 40°08'17.7456"N | 104°35'9.9995"W | 0.00 | |
| 15730.00† | 90.000 | 178.629 | 6986.00 | 7483.56 | -7243.91 | 1922.89 | 40°08'16.7575"N | 104°35'9.9820"W | 0.00 | |
| 15830.00† | 90.000 | 178.629 | 6986.00 | 7581.93 | -7343.88 | 1925.29 | 40°08'15.7694"N | 104°35'9.9644"W | 0.00 | |
| 15930.00† | 90.000 | 178.629 | 6986.00 | 7680.30 | -7443.85 | 1927.68 | 40°08'14.7813"N | 104°35'9.9469"W | 0.00 | |
| 16030.00† | 90.000 | 178.629 | 6986.00 | 7778.67 | -7543.82 | 1930.07 | 40°08'13.7931"N | 104°35'9.9294"W | 0.00 | |
| 16130.00† | 90.000 | 178.629 | 6986.00 | 7877.04 | -7643.79 | 1932.46 | 40°08'12.8050"N | 104°35'9.9118"W | 0.00 | |
| 16230.00† | 90.000 | 178.629 | 6986.00 | 7975.41 | -7743.76 | 1934.86 | 40°08'11.8169"N | 104°35'9.8943"W | 0.00 | |
| 16330.00† | 90.000 | 178.629 | 6986.00 | 8073.78 | -7843.73 | 1937.25 | 40°08'10.8288"N | 104°35'9.8768"W | 0.00 | |
| 16430.00† | 90.000 | 178.629 | 6986.00 | 8172.15 | -7943.71 | 1939.64 | 40°08'9.8407"N | 104°35'9.8592"W | 0.00 | |
| 16530.00† | 90.000 | 178.629 | 6986.00 | 8270.52 | -8043.68 | 1942.03 | 40°08'8.8526"N | 104°35'9.8417"W | 0.00 | |
| 16630.00† | 90.000 | 178.629 | 6986.00 | 8368.89 | -8143.65 | 1944.42 | 40°08'7.8644"N | 104°35'9.8242"W | 0.00 | |
| 16730.00† | 90.000 | 178.629 | 6986.00 | 8467.26 | -8243.62 | 1946.82 | 40°08'6.8763"N | 104°35'9.8067"W | 0.00 | |
| 16830.00† | 90.000 | 178.629 | 6986.00 | 8565.63 | -8343.59 | 1949.21 | 40°08'5.8882"N | 104°35'9.7891"W | 0.00 | |
| 16930.00† | 90.000 | 178.629 | 6986.00 | 8664.00 | -8443.56 | 1951.60 | 40°08'4.9001"N | 104°35'9.7716"W | 0.00 | |
| 17030.00† | 90.000 | 178.629 | 6986.00 | 8762.37 | -8543.53 | 1953.99 | 40°08'3.9120"N | 104°35'9.7541"W | 0.00 | |

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---|-----------|---------------------|
| Operator | NOBLE ENERGY, INC | Well | Pioneer Y18-715 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T02N-R64W | Wellbore | Pioneer Y18-715 PWB |
| Slot | SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07) | | |

WELLPATH DATA (190 stations) † = interpolated, ‡ = extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|-----------|-----------------|-------------|----------|----------------|------------|-----------|-----------------|-----------------|---------------|----------|
| 17130.00† | 90.000 | 178.629 | 6986.00 | 8860.74 | -8643.51 | 1956.39 | 40°08'2.9239"N | 104°35'9.7365"W | 0.00 | |
| 17230.00† | 90.000 | 178.629 | 6986.00 | 8959.11 | -8743.48 | 1958.78 | 40°08'1.9357"N | 104°35'9.7190"W | 0.00 | |
| 17330.00† | 90.000 | 178.629 | 6986.00 | 9057.48 | -8843.45 | 1961.17 | 40°08'0.9476"N | 104°35'9.7015"W | 0.00 | |
| 17430.00† | 90.000 | 178.629 | 6986.00 | 9155.84 | -8943.42 | 1963.56 | 40°07'59.9595"N | 104°35'9.6839"W | 0.00 | |
| 17530.00† | 90.000 | 178.629 | 6986.00 | 9254.21 | -9043.39 | 1965.95 | 40°07'58.9714"N | 104°35'9.6664"W | 0.00 | |
| 17630.00† | 90.000 | 178.629 | 6986.00 | 9352.58 | -9143.36 | 1968.35 | 40°07'57.9833"N | 104°35'9.6489"W | 0.00 | |
| 17730.00† | 90.000 | 178.629 | 6986.00 | 9450.95 | -9243.33 | 1970.74 | 40°07'56.9952"N | 104°35'9.6313"W | 0.00 | |
| 17830.00† | 90.000 | 178.629 | 6986.00 | 9549.32 | -9343.31 | 1973.13 | 40°07'56.0070"N | 104°35'9.6138"W | 0.00 | |
| 17930.00† | 90.000 | 178.629 | 6986.00 | 9647.69 | -9443.28 | 1975.52 | 40°07'55.0189"N | 104°35'9.5963"W | 0.00 | |
| 18008.75 | 90.000 | 178.629 | 6986.00‡ | 9725.16 | -9522.01 | 1977.41 | 40°07'54.2408"N | 104°35'9.5825"W | 0.00 | BHL |

HOLE & CASING SECTIONS - Ref Wellbore: Pioneer Y18-715 PWB Ref Wellpath: PIONEER Y18-715 (REV-1.0) PWP

| String/Diameter | Start MD [ft] | End MD [ft] | Interval [ft] | Start TVD [ft] | End TVD [ft] | Start N/S [ft] | Start E/W [ft] | End N/S [ft] | End E/W [ft] |
|------------------------|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| 13.5in Open Hole | 30.00 | 1850.00 | 1820.00 | 30.00 | 1850.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9.625in Casing Surface | 30.00 | 1850.00 | 1820.00 | 30.00 | 1850.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TARGETS

| Name | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
|--|----------|----------|------------|-----------|-------------------|--------------------|-----------------|------------------|-------|
| 3) PIONEER Y18-715 BHL PLAN (200'FSL & 350'FEL,SEC.18) | 18008.75 | 6986.00 | -9522.01 | 1977.41 | 3255562.60 | 1292151.37 | 40°07'54.2408"N | 104°35'9.5825"W | point |
| 1) PIONEER Y18-715 LP 2 (200'FNL & 480'FEL,SEC.07) | 7891.81 | 6986.00 | 592.64 | 1763.45 | 3255348.65 | 1302265.57 | 40°09'34.2109"N | 104°35'10.9953"W | point |
| PIONEER Y18-715 LP PLAN (200'FNL & 350'FEL,SEC.07) | N/A | 6986.00 | 595.90 | 1893.48 | 3255478.67 | 1302268.83 | 40°09'34.2298"N | 104°35'9.3202"W | point |
| 2) PIONEER Y18-715 T1 | 12932.58 | 6986.00 | -4447.29 | 1856.02 | 3255441.21 | 1297225.86 | 40°08'44.3992"N | 104°35'10.4720"W | point |

SURVEY PROGRAM - Ref Wellbore: Pioneer Y18-715 PWB Ref Wellpath: PIONEER Y18-715 (REV-1.0) PWP

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
|---------------|-------------|------------------------------|------------------|---------------------|
| 30.00 | 18106.24 | OWSG MWD rev2 (MS+IFR1) | | Pioneer Y18-715 PWB |



Planned Wellpath Report

PIONEER Y18-715 (REV-1.0) PWP
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---|-----------|---------------------|
| Operator | NOBLE ENERGY, INC | Well | Pioneer Y18-715 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T02N-R64W | Wellbore | Pioneer Y18-715 PWB |
| Slot | SLOT#18 PIONEER Y18-715 (748'FNL & 2239'FEL,SEC.07) | | |

| DESIGN COMMENTS | | | | |
|-----------------|-----------------|-------------|----------|--------------------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
| 30.00 | 0.000 | 46.000 | 30.00 | SHL |
| 2300.00 | 0.000 | 46.000 | 2300.00 | End of Tangent |
| 3898.05 | 31.961 | 46.000 | 3816.45 | End of Build (J) |
| 3998.05 | 31.961 | 46.000 | 3901.29 | End of Tangent (J) |
| 4158.56 | 30.174 | 51.172 | 4038.80 | Build (XS) |
| 6692.55 | 30.174 | 51.172 | 6229.43 | KOP |
| 7891.81 | 90.000 | 178.948 | 6986.00 | TPZ |
| 12932.58 | 90.000 | 178.948 | 6986.00 | Target 1 |
| 12948.51 | 90.000 | 178.629 | 6986.00 | 3D Arc (J) |
| 18008.75 | 90.000 | 178.629 | 6986.00 | BHL |