

Whiting Oil & Gas

Well Name: **Wildhorse #04-0424H**

Surface Location: Wildhorse #04-0424H Pad Sec.4-T9N-R59W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

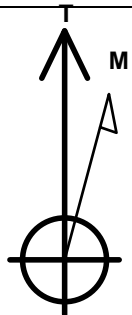
Ground Elevation: 5094.5

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|-------|-------|------------|------------|-----------|-------------|------|
| 0.0 | 0.0 | 1532772.39 | 3419373.09 | 40.786014 | -103.985531 | |

RKB Ensign 14 - 15' WELL @ 5109.5ft (RKB Ensign 14 - 15')

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|------------------------|--------|---------|--------|------------|------------|-----------|-------------|---------|
| HARDLINE 660'FNL | 1.0 | -340.0 | -400.0 | 1532425.61 | 3418978.96 | 40.785081 | -103.986975 | Polygon |
| HARDLINE 660'FSL | 1.0 | -4280.9 | -450.7 | 1528484.43 | 3418995.57 | 40.774264 | -103.987158 | Polygon |
| BHL 660'FSL & 1963'FWL | 6292.0 | -4280.9 | -50.7 | 1528491.22 | 3419395.53 | 40.774264 | -103.985714 | Point |



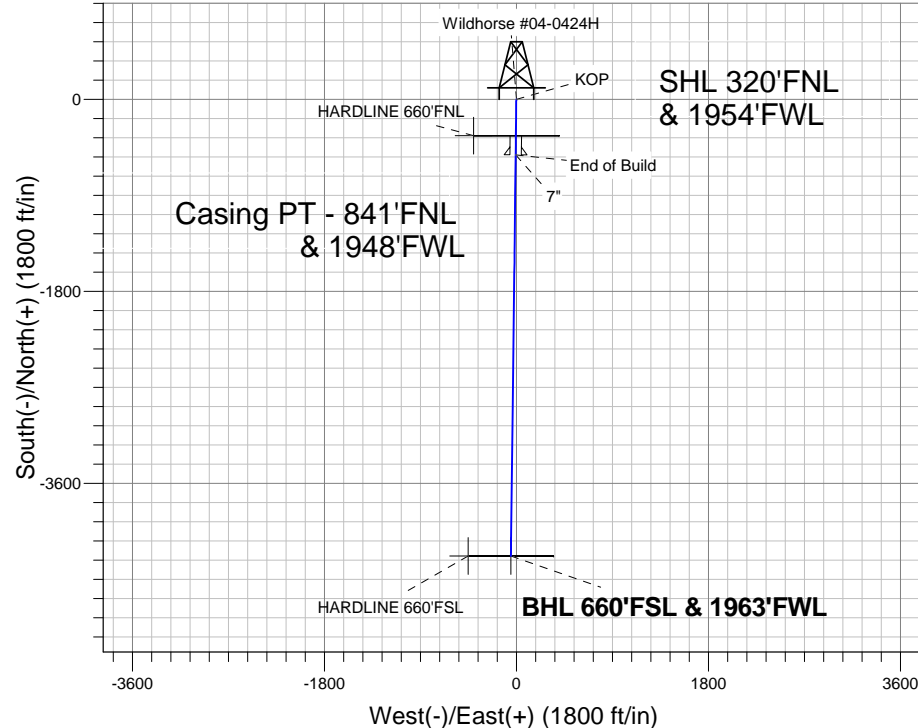
Azimuths to True North
Magnetic North: 8.41°

Magnetic Field
Strength: 53367.5nT
Dip Angle: 67.47°
Date: 11/14/2011
Model: IGRF2010

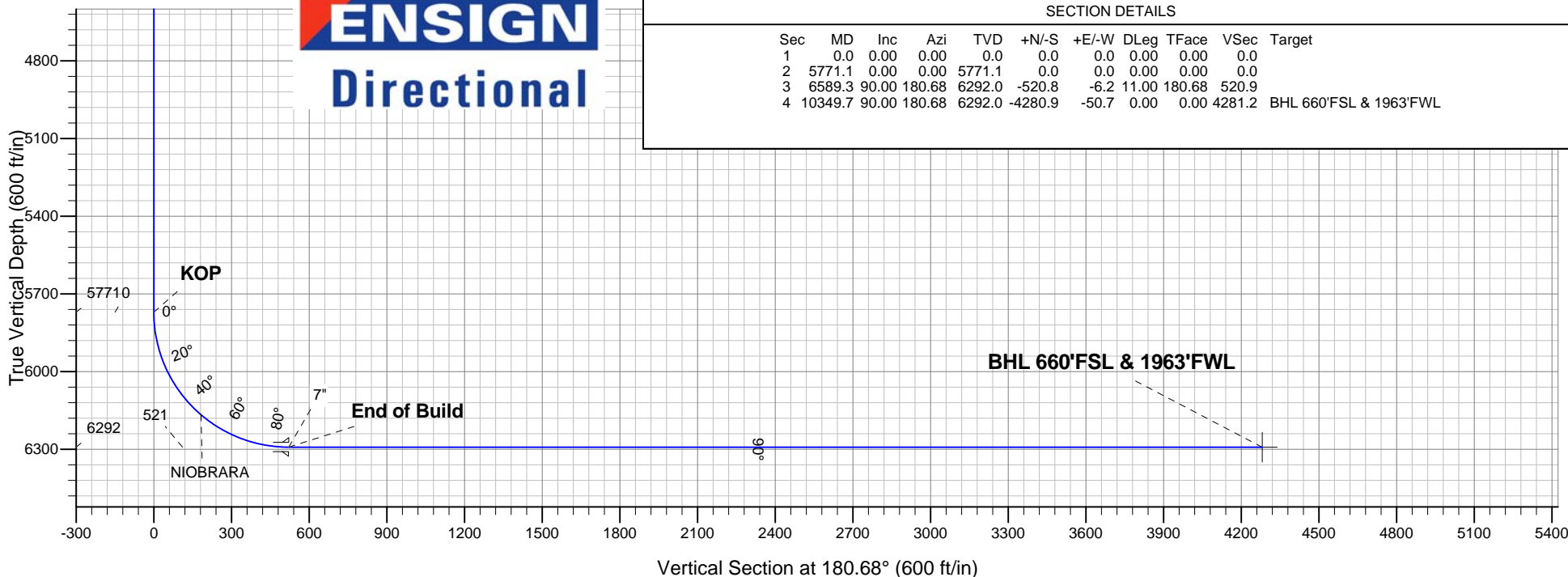
ANNOTATIONS

| TVD | MD | Annotation |
|--------|--------|--------------|
| 5771.1 | 5771.1 | KOP |
| 6292.0 | 6589.3 | End of Build |

Wildhorse #04-0424H Pad Sec.4-T9N-R59W
Wildhorse #04-0424H
Plan #1 (11-14-11)
15:27, November 14 2011



ENSIGN
Directional



SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|---------|-------|--------|--------|---------|-------|-------|--------|--------|------------------------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 5771.1 | 0.00 | 0.00 | 5771.1 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 6589.3 | 90.00 | 180.68 | 6292.0 | -520.8 | -6.2 | 11.00 | 180.68 | 520.9 | |
| 4 | 10349.7 | 90.00 | 180.68 | 6292.0 | -4280.9 | -50.7 | 0.00 | 0.00 | 4281.2 | BHL 660'FSL & 1963'FWL |



Whiting Oil & Gas

SEC.4-T9N-R59W

Wildhorse #04-0424H Pad Sec.4-T9N-R59W

Wildhorse #04-0424H

Wellbore #1

Plan: Plan #1 (11-14-11)

Standard Planning Report

14 November, 2011

| | | | |
|------------------|--|-------------------------------------|---------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Wildhorse #04-0424H |
| Company: | Whiting Oil & Gas | TVD Reference: | WELL @ 5109.5ft (RKB Ensign 14 - 15') |
| Project: | SEC.4-T9N-R59W | MD Reference: | WELL @ 5109.5ft (RKB Ensign 14 - 15') |
| Site: | Wildhorse #04-0424H Pad Sec.4-T9N-R59W | North Reference: | True |
| Well: | Wildhorse #04-0424H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (11-14-11) | | |

| | | | |
|--------------------|---------------------------------|----------------------|-----------------------------|
| Project | SEC.4-T9N-R59W, Weld County, CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | Using Well Reference Point |
| Map Zone: | Colorado Northern Zone | | Using geodetic scale factor |

| | | | | | |
|-----------------------|----------|--|----------------|-------------------|-------------|
| Site | | Wildhorse #04-0424H Pad Sec.4-T9N-R59W | | | |
| Site Position: | | Northing: | 1,532,772.40ft | Latitude: | 40.786014 |
| From: | Lat/Long | Easting: | 3,419,373.09ft | Longitude: | -103.985531 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | " | Grid Convergence: | 0.98 ° |

| | | | | | | |
|----------------------|---------------------|--------|---------------------|-----------------|---------------|-------------|
| Well | Wildhorse #04-0424H | | | | | |
| Well Position | +N-S | 0.0 ft | Northing: | 1,532,772.39 ft | Latitude: | 40.786014 |
| | +E-W | 0.0 ft | Easting: | 3,419,373.09 ft | Longitude: | -103.985531 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 5,094.5 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 11/14/2011 | 8.41 | 67.47 | 53,368 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #1 (11-14-11) | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 180.68 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|-------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,771.1 | 0.00 | 0.00 | 5,771.1 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,589.3 | 90.00 | 180.68 | 6,292.0 | -520.8 | -6.2 | 11.00 | 11.00 | 0.00 | 180.68 | |
| 10,349.7 | 90.00 | 180.68 | 6,292.0 | -4,280.9 | -50.7 | 0.00 | 0.00 | 0.00 | 0.00 | BHL 660'FSL & 196 |

| | | | |
|------------------|--|-------------------------------------|---------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Wildhorse #04-0424H |
| Company: | Whiting Oil & Gas | TVD Reference: | WELL @ 5109.5ft (RKB Ensign 14 - 15') |
| Project: | SEC.4-T9N-R59W | MD Reference: | WELL @ 5109.5ft (RKB Ensign 14 - 15') |
| Site: | Wildhorse #04-0424H Pad Sec.4-T9N-R59W | North Reference: | True |
| Well: | Wildhorse #04-0424H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (11-14-11) | | |

| Planned 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) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1.0 | 0.00 | 0.00 | 1.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| HARDLINE 660'FNL - HARDLINE 660'FSL | | | | | | | | | |
| 40.0 | 0.00 | 0.00 | 40.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 80.0 | 0.00 | 0.00 | 80.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 120.0 | 0.00 | 0.00 | 120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 160.0 | 0.00 | 0.00 | 160.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 240.0 | 0.00 | 0.00 | 240.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 280.0 | 0.00 | 0.00 | 280.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 320.0 | 0.00 | 0.00 | 320.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 360.0 | 0.00 | 0.00 | 360.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 440.0 | 0.00 | 0.00 | 440.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 480.0 | 0.00 | 0.00 | 480.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 520.0 | 0.00 | 0.00 | 520.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 560.0 | 0.00 | 0.00 | 560.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 640.0 | 0.00 | 0.00 | 640.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 680.0 | 0.00 | 0.00 | 680.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 720.0 | 0.00 | 0.00 | 720.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 760.0 | 0.00 | 0.00 | 760.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 840.0 | 0.00 | 0.00 | 840.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 880.0 | 0.00 | 0.00 | 880.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 920.0 | 0.00 | 0.00 | 920.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 960.0 | 0.00 | 0.00 | 960.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,040.0 | 0.00 | 0.00 | 1,040.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,080.0 | 0.00 | 0.00 | 1,080.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,120.0 | 0.00 | 0.00 | 1,120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,160.0 | 0.00 | 0.00 | 1,160.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,240.0 | 0.00 | 0.00 | 1,240.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,280.0 | 0.00 | 0.00 | 1,280.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,320.0 | 0.00 | 0.00 | 1,320.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,360.0 | 0.00 | 0.00 | 1,360.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,440.0 | 0.00 | 0.00 | 1,440.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,480.0 | 0.00 | 0.00 | 1,480.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,520.0 | 0.00 | 0.00 | 1,520.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,560.0 | 0.00 | 0.00 | 1,560.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,640.0 | 0.00 | 0.00 | 1,640.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,680.0 | 0.00 | 0.00 | 1,680.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,720.0 | 0.00 | 0.00 | 1,720.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,760.0 | 0.00 | 0.00 | 1,760.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,840.0 | 0.00 | 0.00 | 1,840.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,880.0 | 0.00 | 0.00 | 1,880.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,920.0 | 0.00 | 0.00 | 1,920.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,960.0 | 0.00 | 0.00 | 1,960.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,040.0 | 0.00 | 0.00 | 2,040.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--|-------------------------------------|---------------------------------------|
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| Site: | Wildhorse #04-0424H Pad Sec.4-T9N-R59W | North Reference: | True |
| Well: | Wildhorse #04-0424H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (11-14-11) | | |

| Planned 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) |
| 2,080.0 | 0.00 | 0.00 | 2,080.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,120.0 | 0.00 | 0.00 | 2,120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,160.0 | 0.00 | 0.00 | 2,160.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,240.0 | 0.00 | 0.00 | 2,240.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,280.0 | 0.00 | 0.00 | 2,280.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,320.0 | 0.00 | 0.00 | 2,320.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,360.0 | 0.00 | 0.00 | 2,360.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 0.00 | 0.00 | 2,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,440.0 | 0.00 | 0.00 | 2,440.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,480.0 | 0.00 | 0.00 | 2,480.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,520.0 | 0.00 | 0.00 | 2,520.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,560.0 | 0.00 | 0.00 | 2,560.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,640.0 | 0.00 | 0.00 | 2,640.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,680.0 | 0.00 | 0.00 | 2,680.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,720.0 | 0.00 | 0.00 | 2,720.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,760.0 | 0.00 | 0.00 | 2,760.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 0.00 | 0.00 | 2,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,840.0 | 0.00 | 0.00 | 2,840.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,880.0 | 0.00 | 0.00 | 2,880.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,920.0 | 0.00 | 0.00 | 2,920.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,960.0 | 0.00 | 0.00 | 2,960.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 0.00 | 0.00 | 3,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,040.0 | 0.00 | 0.00 | 3,040.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,080.0 | 0.00 | 0.00 | 3,080.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,120.0 | 0.00 | 0.00 | 3,120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,160.0 | 0.00 | 0.00 | 3,160.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 0.00 | 0.00 | 3,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,240.0 | 0.00 | 0.00 | 3,240.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,280.0 | 0.00 | 0.00 | 3,280.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,320.0 | 0.00 | 0.00 | 3,320.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,360.0 | 0.00 | 0.00 | 3,360.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 0.00 | 0.00 | 3,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,440.0 | 0.00 | 0.00 | 3,440.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,480.0 | 0.00 | 0.00 | 3,480.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,520.0 | 0.00 | 0.00 | 3,520.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,560.0 | 0.00 | 0.00 | 3,560.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 0.00 | 0.00 | 3,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,640.0 | 0.00 | 0.00 | 3,640.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,680.0 | 0.00 | 0.00 | 3,680.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,720.0 | 0.00 | 0.00 | 3,720.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,760.0 | 0.00 | 0.00 | 3,760.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 0.00 | 0.00 | 3,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,840.0 | 0.00 | 0.00 | 3,840.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,880.0 | 0.00 | 0.00 | 3,880.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,920.0 | 0.00 | 0.00 | 3,920.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,960.0 | 0.00 | 0.00 | 3,960.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 0.00 | 0.00 | 4,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,040.0 | 0.00 | 0.00 | 4,040.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,080.0 | 0.00 | 0.00 | 4,080.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,120.0 | 0.00 | 0.00 | 4,120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,160.0 | 0.00 | 0.00 | 4,160.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 0.00 | 0.00 | 4,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |

| | | | |
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| Database: | Landmark | Local Co-ordinate Reference: | Well Wildhorse #04-0424H |
| Company: | Whiting Oil & Gas | TVD Reference: | WELL @ 5109.5ft (RKB Ensign 14 - 15') |
| Project: | SEC.4-T9N-R59W | MD Reference: | WELL @ 5109.5ft (RKB Ensign 14 - 15') |
| Site: | Wildhorse #04-0424H Pad Sec.4-T9N-R59W | North Reference: | True |
| Well: | Wildhorse #04-0424H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (11-14-11) | | |

| Planned 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) |
| 4,240.0 | 0.00 | 0.00 | 4,240.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,280.0 | 0.00 | 0.00 | 4,280.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,320.0 | 0.00 | 0.00 | 4,320.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,360.0 | 0.00 | 0.00 | 4,360.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 0.00 | 0.00 | 4,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,440.0 | 0.00 | 0.00 | 4,440.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,480.0 | 0.00 | 0.00 | 4,480.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,520.0 | 0.00 | 0.00 | 4,520.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,560.0 | 0.00 | 0.00 | 4,560.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 0.00 | 0.00 | 4,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,640.0 | 0.00 | 0.00 | 4,640.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,680.0 | 0.00 | 0.00 | 4,680.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,720.0 | 0.00 | 0.00 | 4,720.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,760.0 | 0.00 | 0.00 | 4,760.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 0.00 | 0.00 | 4,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,840.0 | 0.00 | 0.00 | 4,840.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,880.0 | 0.00 | 0.00 | 4,880.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,920.0 | 0.00 | 0.00 | 4,920.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,960.0 | 0.00 | 0.00 | 4,960.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 0.00 | 0.00 | 5,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,040.0 | 0.00 | 0.00 | 5,040.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,080.0 | 0.00 | 0.00 | 5,080.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,120.0 | 0.00 | 0.00 | 5,120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,160.0 | 0.00 | 0.00 | 5,160.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 0.00 | 0.00 | 5,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,240.0 | 0.00 | 0.00 | 5,240.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,280.0 | 0.00 | 0.00 | 5,280.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,320.0 | 0.00 | 0.00 | 5,320.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,360.0 | 0.00 | 0.00 | 5,360.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 0.00 | 0.00 | 5,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,440.0 | 0.00 | 0.00 | 5,440.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,480.0 | 0.00 | 0.00 | 5,480.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,520.0 | 0.00 | 0.00 | 5,520.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,560.0 | 0.00 | 0.00 | 5,560.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 0.00 | 0.00 | 5,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,640.0 | 0.00 | 0.00 | 5,640.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,680.0 | 0.00 | 0.00 | 5,680.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,720.0 | 0.00 | 0.00 | 5,720.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,760.0 | 0.00 | 0.00 | 5,760.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,771.1 | 0.00 | 0.00 | 5,771.1 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| KOP | | | | | | | | | |
| 5,800.0 | 3.18 | 180.68 | 5,800.0 | -0.8 | 0.0 | 0.8 | 10.99 | 10.99 | 0.00 |
| 5,840.0 | 7.58 | 180.68 | 5,839.8 | -4.5 | -0.1 | 4.5 | 11.00 | 11.00 | 0.00 |
| 5,880.0 | 11.98 | 180.68 | 5,879.2 | -11.3 | -0.1 | 11.3 | 11.00 | 11.00 | 0.00 |
| 5,920.0 | 16.38 | 180.68 | 5,918.0 | -21.1 | -0.3 | 21.1 | 11.00 | 11.00 | 0.00 |
| 5,960.0 | 20.78 | 180.68 | 5,955.9 | -33.9 | -0.4 | 33.9 | 11.00 | 11.00 | 0.00 |
| 6,000.0 | 25.18 | 180.68 | 5,992.7 | -49.5 | -0.6 | 49.5 | 11.00 | 11.00 | 0.00 |
| 6,040.0 | 29.58 | 180.68 | 6,028.2 | -67.9 | -0.8 | 67.9 | 11.00 | 11.00 | 0.00 |
| 6,080.0 | 33.98 | 180.68 | 6,062.2 | -88.9 | -1.1 | 88.9 | 11.00 | 11.00 | 0.00 |
| 6,120.0 | 38.38 | 180.68 | 6,094.5 | -112.5 | -1.3 | 112.5 | 11.00 | 11.00 | 0.00 |
| 6,160.0 | 42.78 | 180.68 | 6,124.9 | -138.5 | -1.6 | 138.5 | 11.00 | 11.00 | 0.00 |
| 6,200.0 | 47.18 | 180.68 | 6,153.2 | -166.8 | -2.0 | 166.8 | 11.00 | 11.00 | 0.00 |
| 6,220.8 | 49.47 | 180.68 | 6,167.0 | -182.3 | -2.2 | 182.4 | 11.00 | 11.00 | 0.00 |
| NOBRARA | | | | | | | | | |

| | | | |
|------------------|--|-------------------------------------|---------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Wildhorse #04-0424H |
| Company: | Whiting Oil & Gas | TVD Reference: | WELL @ 5109.5ft (RKB Ensign 14 - 15') |
| Project: | SEC.4-T9N-R59W | MD Reference: | WELL @ 5109.5ft (RKB Ensign 14 - 15') |
| Site: | Wildhorse #04-0424H Pad Sec.4-T9N-R59W | North Reference: | True |
| Well: | Wildhorse #04-0424H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (11-14-11) | | |

| Planned 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) |
| 6,240.0 | 51.58 | 180.68 | 6,179.2 | -197.1 | -2.3 | 197.2 | 11.00 | 11.00 | 0.00 |
| 6,280.0 | 55.98 | 180.68 | 6,202.8 | -229.4 | -2.7 | 229.4 | 11.00 | 11.00 | 0.00 |
| 6,320.0 | 60.38 | 180.68 | 6,223.9 | -263.4 | -3.1 | 263.4 | 11.00 | 11.00 | 0.00 |
| 6,360.0 | 64.78 | 180.68 | 6,242.3 | -298.9 | -3.5 | 298.9 | 11.00 | 11.00 | 0.00 |
| 6,400.0 | 69.18 | 180.68 | 6,258.0 | -335.7 | -4.0 | 335.7 | 11.00 | 11.00 | 0.00 |
| 6,440.0 | 73.58 | 180.68 | 6,270.7 | -373.6 | -4.4 | 373.6 | 11.00 | 11.00 | 0.00 |
| 6,480.0 | 77.98 | 180.68 | 6,280.6 | -412.3 | -4.9 | 412.4 | 11.00 | 11.00 | 0.00 |
| 6,520.0 | 82.38 | 180.68 | 6,287.4 | -451.7 | -5.3 | 451.8 | 11.00 | 11.00 | 0.00 |
| 6,560.0 | 86.78 | 180.68 | 6,291.2 | -491.5 | -5.8 | 491.6 | 11.00 | 11.00 | 0.00 |
| 6,589.3 | 90.00 | 180.68 | 6,292.0 | -520.8 | -6.2 | 520.9 | 11.00 | 11.00 | 0.00 |
| End of Build - 7" | | | | | | | | | |
| 6,600.0 | 90.00 | 180.68 | 6,292.0 | -531.5 | -6.3 | 531.6 | 0.01 | 0.01 | 0.00 |
| 6,640.0 | 90.00 | 180.68 | 6,292.0 | -571.5 | -6.8 | 571.6 | 0.00 | 0.00 | 0.00 |
| 6,680.0 | 90.00 | 180.68 | 6,292.0 | -611.5 | -7.2 | 611.6 | 0.00 | 0.00 | 0.00 |
| 6,720.0 | 90.00 | 180.68 | 6,292.0 | -651.5 | -7.7 | 651.6 | 0.00 | 0.00 | 0.00 |
| 6,760.0 | 90.00 | 180.68 | 6,292.0 | -691.5 | -8.2 | 691.6 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 90.00 | 180.68 | 6,292.0 | -731.5 | -8.7 | 731.6 | 0.00 | 0.00 | 0.00 |
| 6,840.0 | 90.00 | 180.68 | 6,292.0 | -771.5 | -9.1 | 771.6 | 0.00 | 0.00 | 0.00 |
| 6,880.0 | 90.00 | 180.68 | 6,292.0 | -811.5 | -9.6 | 811.6 | 0.00 | 0.00 | 0.00 |
| 6,920.0 | 90.00 | 180.68 | 6,292.0 | -851.5 | -10.1 | 851.6 | 0.00 | 0.00 | 0.00 |
| 6,960.0 | 90.00 | 180.68 | 6,292.0 | -891.5 | -10.6 | 891.6 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 90.00 | 180.68 | 6,292.0 | -931.5 | -11.0 | 931.6 | 0.00 | 0.00 | 0.00 |
| 7,040.0 | 90.00 | 180.68 | 6,292.0 | -971.5 | -11.5 | 971.6 | 0.00 | 0.00 | 0.00 |
| 7,080.0 | 90.00 | 180.68 | 6,292.0 | -1,011.5 | -12.0 | 1,011.6 | 0.00 | 0.00 | 0.00 |
| 7,120.0 | 90.00 | 180.68 | 6,292.0 | -1,051.5 | -12.4 | 1,051.6 | 0.00 | 0.00 | 0.00 |
| 7,160.0 | 90.00 | 180.68 | 6,292.0 | -1,091.5 | -12.9 | 1,091.6 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 90.00 | 180.68 | 6,292.0 | -1,131.5 | -13.4 | 1,131.6 | 0.00 | 0.00 | 0.00 |
| 7,240.0 | 90.00 | 180.68 | 6,292.0 | -1,171.5 | -13.9 | 1,171.6 | 0.00 | 0.00 | 0.00 |
| 7,280.0 | 90.00 | 180.68 | 6,292.0 | -1,211.5 | -14.3 | 1,211.6 | 0.00 | 0.00 | 0.00 |
| 7,320.0 | 90.00 | 180.68 | 6,292.0 | -1,251.5 | -14.8 | 1,251.6 | 0.00 | 0.00 | 0.00 |
| 7,360.0 | 90.00 | 180.68 | 6,292.0 | -1,291.5 | -15.3 | 1,291.6 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 90.00 | 180.68 | 6,292.0 | -1,331.5 | -15.8 | 1,331.6 | 0.00 | 0.00 | 0.00 |
| 7,440.0 | 90.00 | 180.68 | 6,292.0 | -1,371.5 | -16.2 | 1,371.6 | 0.00 | 0.00 | 0.00 |
| 7,480.0 | 90.00 | 180.68 | 6,292.0 | -1,411.5 | -16.7 | 1,411.6 | 0.00 | 0.00 | 0.00 |
| 7,520.0 | 90.00 | 180.68 | 6,292.0 | -1,451.5 | -17.2 | 1,451.6 | 0.00 | 0.00 | 0.00 |
| 7,560.0 | 90.00 | 180.68 | 6,292.0 | -1,491.5 | -17.7 | 1,491.6 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 90.00 | 180.68 | 6,292.0 | -1,531.5 | -18.1 | 1,531.6 | 0.00 | 0.00 | 0.00 |
| 7,640.0 | 90.00 | 180.68 | 6,292.0 | -1,571.4 | -18.6 | 1,571.6 | 0.00 | 0.00 | 0.00 |
| 7,680.0 | 90.00 | 180.68 | 6,292.0 | -1,611.4 | -19.1 | 1,611.6 | 0.00 | 0.00 | 0.00 |
| 7,720.0 | 90.00 | 180.68 | 6,292.0 | -1,651.4 | -19.6 | 1,651.6 | 0.00 | 0.00 | 0.00 |
| 7,760.0 | 90.00 | 180.68 | 6,292.0 | -1,691.4 | -20.0 | 1,691.6 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.00 | 180.68 | 6,292.0 | -1,731.4 | -20.5 | 1,731.6 | 0.00 | 0.00 | 0.00 |
| 7,840.0 | 90.00 | 180.68 | 6,292.0 | -1,771.4 | -21.0 | 1,771.6 | 0.00 | 0.00 | 0.00 |
| 7,880.0 | 90.00 | 180.68 | 6,292.0 | -1,811.4 | -21.4 | 1,811.6 | 0.00 | 0.00 | 0.00 |
| 7,920.0 | 90.00 | 180.68 | 6,292.0 | -1,851.4 | -21.9 | 1,851.6 | 0.00 | 0.00 | 0.00 |
| 7,960.0 | 90.00 | 180.68 | 6,292.0 | -1,891.4 | -22.4 | 1,891.6 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.00 | 180.68 | 6,292.0 | -1,931.4 | -22.9 | 1,931.6 | 0.00 | 0.00 | 0.00 |
| 8,040.0 | 90.00 | 180.68 | 6,292.0 | -1,971.4 | -23.3 | 1,971.6 | 0.00 | 0.00 | 0.00 |
| 8,080.0 | 90.00 | 180.68 | 6,292.0 | -2,011.4 | -23.8 | 2,011.6 | 0.00 | 0.00 | 0.00 |
| 8,120.0 | 90.00 | 180.68 | 6,292.0 | -2,051.4 | -24.3 | 2,051.6 | 0.00 | 0.00 | 0.00 |
| 8,160.0 | 90.00 | 180.68 | 6,292.0 | -2,091.4 | -24.8 | 2,091.6 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.00 | 180.68 | 6,292.0 | -2,131.4 | -25.2 | 2,131.6 | 0.00 | 0.00 | 0.00 |
| 8,240.0 | 90.00 | 180.68 | 6,292.0 | -2,171.4 | -25.7 | 2,171.6 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--|-------------------------------------|---------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Wildhorse #04-0424H |
| Company: | Whiting Oil & Gas | TVD Reference: | WELL @ 5109.5ft (RKB Ensign 14 - 15') |
| Project: | SEC.4-T9N-R59W | MD Reference: | WELL @ 5109.5ft (RKB Ensign 14 - 15') |
| Site: | Wildhorse #04-0424H Pad Sec.4-T9N-R59W | North Reference: | True |
| Well: | Wildhorse #04-0424H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (11-14-11) | | |

| Planned 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) |
| 8,280.0 | 90.00 | 180.68 | 6,292.0 | -2,211.4 | -26.2 | 2,211.6 | 0.00 | 0.00 | 0.00 |
| 8,320.0 | 90.00 | 180.68 | 6,292.0 | -2,251.4 | -26.7 | 2,251.6 | 0.00 | 0.00 | 0.00 |
| 8,360.0 | 90.00 | 180.68 | 6,292.0 | -2,291.4 | -27.1 | 2,291.6 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 180.68 | 6,292.0 | -2,331.4 | -27.6 | 2,331.6 | 0.00 | 0.00 | 0.00 |
| 8,440.0 | 90.00 | 180.68 | 6,292.0 | -2,371.4 | -28.1 | 2,371.6 | 0.00 | 0.00 | 0.00 |
| 8,480.0 | 90.00 | 180.68 | 6,292.0 | -2,411.4 | -28.6 | 2,411.6 | 0.00 | 0.00 | 0.00 |
| 8,520.0 | 90.00 | 180.68 | 6,292.0 | -2,451.4 | -29.0 | 2,451.6 | 0.00 | 0.00 | 0.00 |
| 8,560.0 | 90.00 | 180.68 | 6,292.0 | -2,491.4 | -29.5 | 2,491.6 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.00 | 180.68 | 6,292.0 | -2,531.4 | -30.0 | 2,531.6 | 0.00 | 0.00 | 0.00 |
| 8,640.0 | 90.00 | 180.68 | 6,292.0 | -2,571.4 | -30.4 | 2,571.6 | 0.00 | 0.00 | 0.00 |
| 8,680.0 | 90.00 | 180.68 | 6,292.0 | -2,611.4 | -30.9 | 2,611.6 | 0.00 | 0.00 | 0.00 |
| 8,720.0 | 90.00 | 180.68 | 6,292.0 | -2,651.4 | -31.4 | 2,651.6 | 0.00 | 0.00 | 0.00 |
| 8,760.0 | 90.00 | 180.68 | 6,292.0 | -2,691.4 | -31.9 | 2,691.6 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 180.68 | 6,292.0 | -2,731.4 | -32.3 | 2,731.6 | 0.00 | 0.00 | 0.00 |
| 8,840.0 | 90.00 | 180.68 | 6,292.0 | -2,771.4 | -32.8 | 2,771.6 | 0.00 | 0.00 | 0.00 |
| 8,880.0 | 90.00 | 180.68 | 6,292.0 | -2,811.4 | -33.3 | 2,811.6 | 0.00 | 0.00 | 0.00 |
| 8,920.0 | 90.00 | 180.68 | 6,292.0 | -2,851.4 | -33.8 | 2,851.6 | 0.00 | 0.00 | 0.00 |
| 8,960.0 | 90.00 | 180.68 | 6,292.0 | -2,891.4 | -34.2 | 2,891.6 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 180.68 | 6,292.0 | -2,931.4 | -34.7 | 2,931.6 | 0.00 | 0.00 | 0.00 |
| 9,040.0 | 90.00 | 180.68 | 6,292.0 | -2,971.4 | -35.2 | 2,971.6 | 0.00 | 0.00 | 0.00 |
| 9,080.0 | 90.00 | 180.68 | 6,292.0 | -3,011.3 | -35.7 | 3,011.6 | 0.00 | 0.00 | 0.00 |
| 9,120.0 | 90.00 | 180.68 | 6,292.0 | -3,051.3 | -36.1 | 3,051.6 | 0.00 | 0.00 | 0.00 |
| 9,160.0 | 90.00 | 180.68 | 6,292.0 | -3,091.3 | -36.6 | 3,091.6 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.00 | 180.68 | 6,292.0 | -3,131.3 | -37.1 | 3,131.6 | 0.00 | 0.00 | 0.00 |
| 9,240.0 | 90.00 | 180.68 | 6,292.0 | -3,171.3 | -37.5 | 3,171.6 | 0.00 | 0.00 | 0.00 |
| 9,280.0 | 90.00 | 180.68 | 6,292.0 | -3,211.3 | -38.0 | 3,211.6 | 0.00 | 0.00 | 0.00 |
| 9,320.0 | 90.00 | 180.68 | 6,292.0 | -3,251.3 | -38.5 | 3,251.6 | 0.00 | 0.00 | 0.00 |
| 9,360.0 | 90.00 | 180.68 | 6,292.0 | -3,291.3 | -39.0 | 3,291.6 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 180.68 | 6,292.0 | -3,331.3 | -39.4 | 3,331.6 | 0.00 | 0.00 | 0.00 |
| 9,440.0 | 90.00 | 180.68 | 6,292.0 | -3,371.3 | -39.9 | 3,371.6 | 0.00 | 0.00 | 0.00 |
| 9,480.0 | 90.00 | 180.68 | 6,292.0 | -3,411.3 | -40.4 | 3,411.6 | 0.00 | 0.00 | 0.00 |
| 9,520.0 | 90.00 | 180.68 | 6,292.0 | -3,451.3 | -40.9 | 3,451.6 | 0.00 | 0.00 | 0.00 |
| 9,560.0 | 90.00 | 180.68 | 6,292.0 | -3,491.3 | -41.3 | 3,491.6 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 180.68 | 6,292.0 | -3,531.3 | -41.8 | 3,531.6 | 0.00 | 0.00 | 0.00 |
| 9,640.0 | 90.00 | 180.68 | 6,292.0 | -3,571.3 | -42.3 | 3,571.6 | 0.00 | 0.00 | 0.00 |
| 9,680.0 | 90.00 | 180.68 | 6,292.0 | -3,611.3 | -42.8 | 3,611.6 | 0.00 | 0.00 | 0.00 |
| 9,720.0 | 90.00 | 180.68 | 6,292.0 | -3,651.3 | -43.2 | 3,651.6 | 0.00 | 0.00 | 0.00 |
| 9,760.0 | 90.00 | 180.68 | 6,292.0 | -3,691.3 | -43.7 | 3,691.6 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.00 | 180.68 | 6,292.0 | -3,731.3 | -44.2 | 3,731.6 | 0.00 | 0.00 | 0.00 |
| 9,840.0 | 90.00 | 180.68 | 6,292.0 | -3,771.3 | -44.7 | 3,771.6 | 0.00 | 0.00 | 0.00 |
| 9,880.0 | 90.00 | 180.68 | 6,292.0 | -3,811.3 | -45.1 | 3,811.6 | 0.00 | 0.00 | 0.00 |
| 9,920.0 | 90.00 | 180.68 | 6,292.0 | -3,851.3 | -45.6 | 3,851.6 | 0.00 | 0.00 | 0.00 |
| 9,960.0 | 90.00 | 180.68 | 6,292.0 | -3,891.3 | -46.1 | 3,891.6 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 180.68 | 6,292.0 | -3,931.3 | -46.5 | 3,931.6 | 0.00 | 0.00 | 0.00 |
| 10,040.0 | 90.00 | 180.68 | 6,292.0 | -3,971.3 | -47.0 | 3,971.6 | 0.00 | 0.00 | 0.00 |
| 10,080.0 | 90.00 | 180.68 | 6,292.0 | -4,011.3 | -47.5 | 4,011.6 | 0.00 | 0.00 | 0.00 |
| 10,120.0 | 90.00 | 180.68 | 6,292.0 | -4,051.3 | -48.0 | 4,051.6 | 0.00 | 0.00 | 0.00 |
| 10,160.0 | 90.00 | 180.68 | 6,292.0 | -4,091.3 | -48.4 | 4,091.6 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.00 | 180.68 | 6,292.0 | -4,131.3 | -48.9 | 4,131.6 | 0.00 | 0.00 | 0.00 |
| 10,240.0 | 90.00 | 180.68 | 6,292.0 | -4,171.3 | -49.4 | 4,171.6 | 0.00 | 0.00 | 0.00 |
| 10,280.0 | 90.00 | 180.68 | 6,292.0 | -4,211.3 | -49.9 | 4,211.6 | 0.00 | 0.00 | 0.00 |
| 10,320.0 | 90.00 | 180.68 | 6,292.0 | -4,251.3 | -50.3 | 4,251.6 | 0.00 | 0.00 | 0.00 |
| 10,349.7 | 90.00 | 180.68 | 6,292.0 | -4,280.9 | -50.7 | 4,281.2 | 0.00 | 0.00 | 0.00 |
| BHL 660'FSL & 1963'FWL | | | | | | | | | |

| Planned 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) |

| Casing Points | | | | | |
|---------------------|---------------------|----|------|---------------------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | | Name | Casing Diameter (") | Hole Diameter (") |
| 6,589.3 | 6,292.0 | 7" | | 7 | 7-1/2 |

| Formations | | | | | | |
|---------------------|---------------------|----------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 6,220.8 | 6,167.0 | NIOBRARA | | 0.00 | | |

| Plan Annotations | | | | | |
|------------------|---------------------------|---------------------------|-------------------|--------------|--------------|
| | Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | | +N-S (ft) | +E-W (ft) | |
| | 5,771.1 | 5,771.1 | 0.0 | 0.0 | KOP |
| | 6,589.3 | 6,292.0 | -520.8 | -6.2 | End of Build |