

PETROLEUM DEVELOPMENT CORP DJ Basin

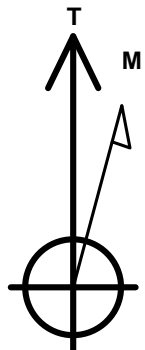
Well Name: **Bihain 26G-312**

Surface Location: Bihain 5N64W26GK Pad Sec.26-T5N-R64W
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone
Ground Elevation: 4604.0

+N/-S +E/-W Northing Easting Longitude Slot
0.0 0.0 1379524.56 3271750.96 40.371094 -104.524666
RKB - 23' WELL @ 4627.0ft (RKB - 23')

DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|--------------------------------|--------|-------|--------|-------|
| SHL 2378'FNL & 484'FWL, Sec.26 | 1.0 | 0.0 | 0.0 | Point |
| BHL 2438'FNL & 500'FEL, Sec.25 | 6592.0 | -77.2 | 9551.8 | Point |



Azimuths to True North
Magnetic North: 8.14°

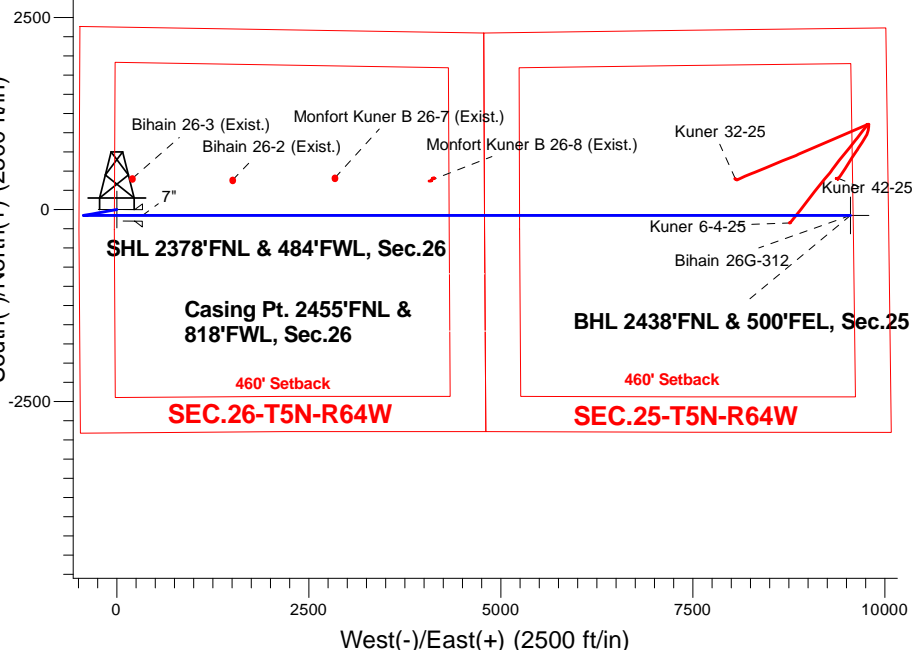
Magnetic Field
Strength: 52680.8snT
Dip Angle: 66.91°
Date: 11/2/2015
Model: IGRF2010

Bihain 5N64W26GK Pad Sec.26-T5N-R64W
Bihain 26G-312
Plan #1 Extension (3-4-16)
15:32, March 09 2016

ANNOTATIONS

| TVD | MD | Annotation |
|--------|---------|--------------------------------|
| 2000.0 | 2000.0 | KOP - Start Build 1.00 |
| 5295.4 | 5323.3 | Start Drop -2.00 |
| 5882.8 | 5912.0 | KOP #2 - Start Build 7.50 |
| 6646.7 | 7116.5 | Start 9217.5 hold at 7116.5 MD |
| 6592.0 | 16334.1 | TD at 16334.1 |

South(-)/North(+) (2500 ft/in)



ENSIGN
Directional

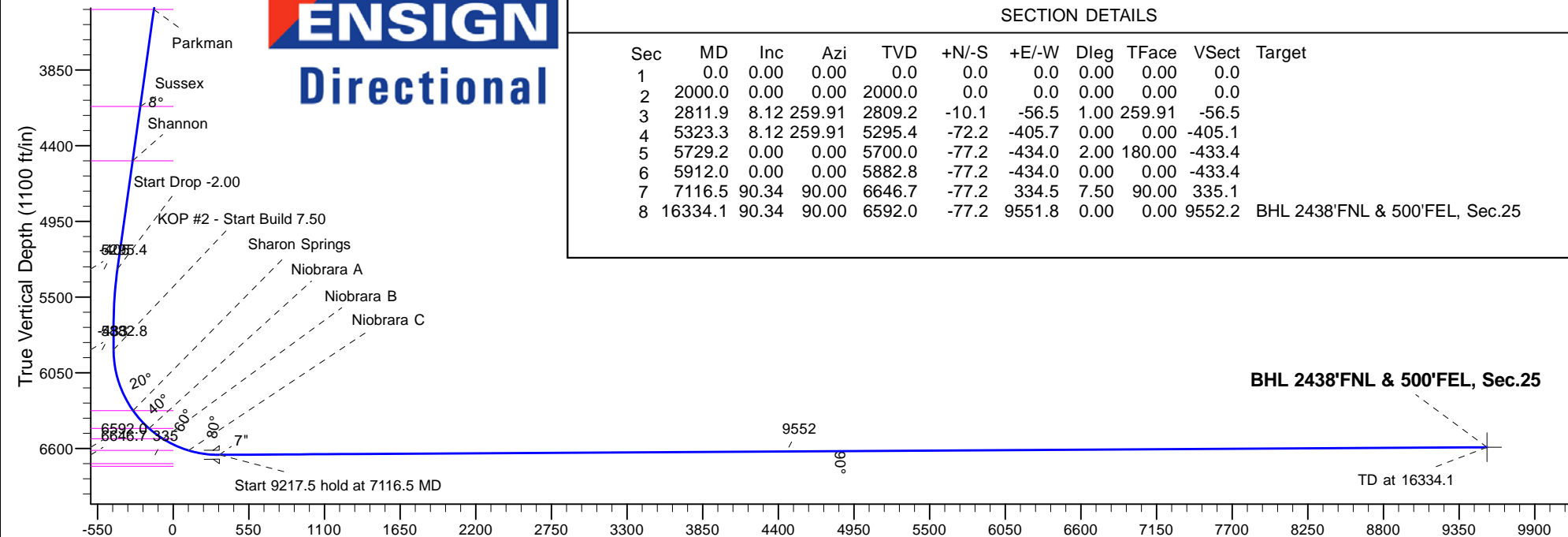
SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
|-----|---------|-------|--------|--------|-------|--------|------|--------|--------|--------------------------------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 2000.0 | 0.00 | 0.00 | 2000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 2811.9 | 8.12 | 259.91 | 2809.2 | -10.1 | -56.5 | 1.00 | 259.91 | -56.5 | |
| 4 | 5323.3 | 8.12 | 259.91 | 5295.4 | -72.2 | -405.7 | 0.00 | 0.00 | -405.1 | |
| 5 | 5729.2 | 0.00 | 0.00 | 5700.0 | -77.2 | -434.0 | 2.00 | 180.00 | -433.4 | |
| 6 | 5912.0 | 0.00 | 0.00 | 5882.8 | -77.2 | -434.0 | 0.00 | 0.00 | -433.4 | |
| 7 | 7116.5 | 90.34 | 90.00 | 6646.7 | -77.2 | 334.5 | 7.50 | 90.00 | 335.1 | |
| 8 | 16334.1 | 90.34 | 90.00 | 6592.0 | -77.2 | 9551.8 | 0.00 | 0.00 | 9552.2 | BHL 2438'FNL & 500'FEL, Sec.25 |

BHL 2438'FNL & 500'FEL, Sec.25

TD at 16334.1

Vertical Section at 90.46° (1100 ft/in)





Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Bihain 5N64W26GK Pad Sec.26-T5N-R64W

Bihain 26G-312

Wellbore #1

Plan: Plan #1 Extension (3-4-16)

Standard Planning Report

09 March, 2016

| | | | |
|------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Database: | US_EDM | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Project: | SEC.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | North Reference: | True |
| Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 Extension (3-4-16) | | |

| | | | |
|--------------------|----------------------------------|----------------------|-----------------------------|
| Project | SEC.26-T5N-R64W, 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 | | | | | | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | | | | | | | | | | | |
|-----------------------|--|--|-----------|--|--|--------------------------------------|--|--|-------------------|--|--|-------------------|--|--|-------------|--|--|
| Site Position: | | | Northing: | | | 1,379,524.57 usft | | | Latitude: | | | 40.371094 | | | | | |
| From: | | | Lat/Long | | | Easting: | | | 3,271,750.97 usft | | | Longitude: | | | -104.524666 | | |
| Position Uncertainty: | | | 0.0 ft | | | Slot Radius: | | | 13-3/16 " | | | Grid Convergence: | | | 0.63 | | |

| | | | | | | |
|----------------------|----------------|--------|---------------------|-------------------|---------------|-------------|
| Well | Bihain 26G-312 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,379,524.56 usft | Latitude: | 40.371094 |
| | +E/-W | 0.0 ft | Easting: | 3,271,750.97 usft | Longitude: | -104.524666 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | 0.0 ft | Ground Level: | 4,604.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 11/2/2015 | 8.14 | 66.91 | 52,681 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #1 Extension (3-4-16) | | | |
| 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 | 90.46 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-------------------------|------------------------|-----------------------|---------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,811.9 | 8.12 | 259.91 | 2,809.2 | -10.1 | -56.5 | 1.00 | 1.00 | 0.00 | 259.91 | |
| 5,323.3 | 8.12 | 259.91 | 5,295.4 | -72.2 | -405.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,729.2 | 0.00 | 0.00 | 5,700.0 | -77.2 | -434.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 5,912.0 | 0.00 | 0.00 | 5,882.8 | -77.2 | -434.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,116.5 | 90.34 | 90.00 | 6,646.7 | -77.2 | 334.5 | 7.50 | 7.50 | 0.00 | 90.00 | |
| 16,334.1 | 90.34 | 90.00 | 6,592.0 | -77.2 | 9,551.8 | 0.00 | 0.00 | 0.00 | 0.00 | BHL 2438'FNL & 500' |

| | | | |
|-----------|--------------------------------------|------------------------------|-----------------------------|
| Database: | US_EDM | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Project: | SEC.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | North Reference: | True |
| Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 Extension (3-4-16) | | |

| Planned Survey | | | | | | | | | |
|--------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1.0 | 0.00 | 0.00 | 1.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| SHL 2378'FNL & 484'FWL, Sec.26 | | | | | | | | | |
| 100.0 | 0.00 | 0.00 | 100.0 | 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 |
| 300.0 | 0.00 | 0.00 | 300.0 | 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 |
| 500.0 | 0.00 | 0.00 | 500.0 | 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 |
| 700.0 | 0.00 | 0.00 | 700.0 | 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 |
| 900.0 | 0.00 | 0.00 | 900.0 | 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 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 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 |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 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 |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 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 |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 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 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 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 |
| KOP - Start Build 1.00 | | | | | | | | | |
| 2,100.0 | 1.00 | 259.91 | 2,100.0 | -0.2 | -0.9 | -0.9 | 1.00 | 1.00 | 0.00 |
| 2,200.0 | 2.00 | 259.91 | 2,200.0 | -0.6 | -3.4 | -3.4 | 1.00 | 1.00 | 0.00 |
| 2,300.0 | 3.00 | 259.91 | 2,299.9 | -1.4 | -7.7 | -7.7 | 1.00 | 1.00 | 0.00 |
| 2,400.0 | 4.00 | 259.91 | 2,399.7 | -2.4 | -13.7 | -13.7 | 1.00 | 1.00 | 0.00 |
| 2,500.0 | 5.00 | 259.91 | 2,499.4 | -3.8 | -21.5 | -21.4 | 1.00 | 1.00 | 0.00 |
| 2,600.0 | 6.00 | 259.91 | 2,598.9 | -5.5 | -30.9 | -30.9 | 1.00 | 1.00 | 0.00 |
| 2,700.0 | 7.00 | 259.91 | 2,698.3 | -7.5 | -42.0 | -42.0 | 1.00 | 1.00 | 0.00 |
| 2,800.0 | 8.00 | 259.91 | 2,797.4 | -9.8 | -54.9 | -54.8 | 1.00 | 1.00 | 0.00 |
| 2,811.9 | 8.12 | 259.91 | 2,809.2 | -10.1 | -56.5 | -56.5 | 1.00 | 1.00 | 0.00 |
| 2,900.0 | 8.12 | 259.91 | 2,896.4 | -12.2 | -68.8 | -68.7 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 8.12 | 259.91 | 2,995.4 | -14.7 | -82.7 | -82.6 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 8.12 | 259.91 | 3,094.4 | -17.2 | -96.6 | -96.5 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 8.12 | 259.91 | 3,193.4 | -19.7 | -110.5 | -110.3 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 8.12 | 259.91 | 3,292.4 | -22.1 | -124.4 | -124.2 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 8.12 | 259.91 | 3,391.4 | -24.6 | -138.3 | -138.1 | 0.00 | 0.00 | 0.00 |
| 3,418.8 | 8.12 | 259.91 | 3,410.0 | -25.1 | -140.9 | -140.7 | 0.00 | 0.00 | 0.00 |
| Parkman | | | | | | | | | |
| 3,500.0 | 8.12 | 259.91 | 3,490.4 | -27.1 | -152.2 | -152.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 8.12 | 259.91 | 3,589.4 | -29.5 | -166.1 | -165.9 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 8.12 | 259.91 | 3,688.4 | -32.0 | -180.0 | -179.8 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 8.12 | 259.91 | 3,787.4 | -34.5 | -193.9 | -193.6 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 8.12 | 259.91 | 3,886.4 | -37.0 | -207.8 | -207.5 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 8.12 | 259.91 | 3,985.4 | -39.4 | -221.7 | -221.4 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 8.12 | 259.91 | 4,084.4 | -41.9 | -235.6 | -235.3 | 0.00 | 0.00 | 0.00 |
| 4,130.9 | 8.12 | 259.91 | 4,115.0 | -42.7 | -239.9 | -239.6 | 0.00 | 0.00 | 0.00 |
| Sussex | | | | | | | | | |
| 4,200.0 | 8.12 | 259.91 | 4,183.4 | -44.4 | -249.5 | -249.2 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 8.12 | 259.91 | 4,282.4 | -46.9 | -263.4 | -263.1 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 8.12 | 259.91 | 4,381.4 | -49.3 | -277.4 | -276.9 | 0.00 | 0.00 | 0.00 |

| | | | |
|-----------|--------------------------------------|------------------------------|-----------------------------|
| Database: | US_EDM | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Project: | SEC.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | North Reference: | True |
| Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 Extension (3-4-16) | | |

| Planned Survey | | | | | | | | | |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,500.0 | 8.12 | 259.91 | 4,480.4 | -51.8 | -291.3 | -290.8 | 0.00 | 0.00 | 0.00 |
| 4,529.9 | 8.12 | 259.91 | 4,510.0 | -52.5 | -295.4 | -295.0 | 0.00 | 0.00 | 0.00 |
| Shannon | | | | | | | | | |
| 4,600.0 | 8.12 | 259.91 | 4,579.4 | -54.3 | -305.2 | -304.7 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 8.12 | 259.91 | 4,678.4 | -56.8 | -319.1 | -318.6 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 8.12 | 259.91 | 4,777.4 | -59.2 | -333.0 | -332.5 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 8.12 | 259.91 | 4,876.4 | -61.7 | -346.9 | -346.4 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 8.12 | 259.91 | 4,975.4 | -64.2 | -360.8 | -360.2 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 8.12 | 259.91 | 5,074.4 | -66.6 | -374.7 | -374.1 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 8.12 | 259.91 | 5,173.4 | -69.1 | -388.6 | -388.0 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 8.12 | 259.91 | 5,272.3 | -71.6 | -402.5 | -401.9 | 0.00 | 0.00 | 0.00 |
| 5,323.3 | 8.12 | 259.91 | 5,295.4 | -72.2 | -405.7 | -405.1 | 0.00 | 0.00 | 0.00 |
| Start Drop -2.00 | | | | | | | | | |
| 5,400.0 | 6.58 | 259.91 | 5,371.5 | -73.9 | -415.4 | -414.8 | 2.00 | -2.00 | 0.00 |
| 5,500.0 | 4.58 | 259.91 | 5,471.0 | -75.6 | -425.0 | -424.3 | 2.00 | -2.00 | 0.00 |
| 5,600.0 | 2.58 | 259.91 | 5,570.8 | -76.7 | -431.1 | -430.5 | 2.00 | -2.00 | 0.00 |
| 5,700.0 | 0.58 | 259.91 | 5,670.8 | -77.2 | -433.9 | -433.2 | 2.00 | -2.00 | 0.00 |
| 5,729.2 | 0.00 | 0.00 | 5,700.0 | -77.2 | -434.0 | -433.4 | 2.00 | -2.00 | 0.00 |
| 5,800.0 | 0.00 | 0.00 | 5,770.8 | -77.2 | -434.0 | -433.4 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 0.00 | 0.00 | 5,870.8 | -77.2 | -434.0 | -433.4 | 0.00 | 0.00 | 0.00 |
| 5,912.0 | 0.00 | 0.00 | 5,882.8 | -77.2 | -434.0 | -433.4 | 0.00 | 0.00 | 0.00 |
| KOP #2 - Start Build 7.50 | | | | | | | | | |
| 6,000.0 | 6.60 | 90.00 | 5,970.6 | -77.2 | -428.9 | -428.3 | 7.50 | 7.50 | 0.00 |
| 6,100.0 | 14.10 | 90.00 | 6,068.9 | -77.2 | -411.0 | -410.3 | 7.50 | 7.50 | 0.00 |
| 6,200.0 | 21.60 | 90.00 | 6,164.0 | -77.2 | -380.4 | -379.7 | 7.50 | 7.50 | 0.00 |
| 6,300.0 | 29.10 | 90.00 | 6,254.3 | -77.2 | -337.6 | -336.9 | 7.50 | 7.50 | 0.00 |
| 6,383.6 | 35.37 | 90.00 | 6,325.0 | -77.2 | -293.0 | -292.4 | 7.50 | 7.50 | 0.00 |
| Sharon Springs | | | | | | | | | |
| 6,400.0 | 36.60 | 90.00 | 6,338.2 | -77.2 | -283.4 | -282.7 | 7.50 | 7.50 | 0.00 |
| 6,500.0 | 44.10 | 90.00 | 6,414.4 | -77.2 | -218.7 | -218.0 | 7.50 | 7.50 | 0.00 |
| 6,558.8 | 48.51 | 90.00 | 6,455.0 | -77.2 | -176.2 | -175.5 | 7.50 | 7.50 | 0.00 |
| Niobrara A | | | | | | | | | |
| 6,600.0 | 51.60 | 90.00 | 6,481.5 | -77.2 | -144.6 | -144.0 | 7.50 | 7.50 | 0.00 |
| 6,684.2 | 57.91 | 90.00 | 6,530.0 | -77.2 | -75.9 | -75.3 | 7.50 | 7.50 | 0.00 |
| Niobrara B | | | | | | | | | |
| 6,700.0 | 59.10 | 90.00 | 6,538.3 | -77.2 | -62.4 | -61.8 | 7.50 | 7.50 | 0.00 |
| 6,800.0 | 66.60 | 90.00 | 6,583.9 | -77.2 | 26.5 | 27.2 | 7.50 | 7.50 | 0.00 |
| 6,891.1 | 73.43 | 90.00 | 6,615.0 | -77.2 | 112.1 | 112.7 | 7.50 | 7.50 | 0.00 |
| Niobrara C | | | | | | | | | |
| 6,900.0 | 74.10 | 90.00 | 6,617.5 | -77.2 | 120.6 | 121.3 | 7.50 | 7.50 | 0.00 |
| 7,000.0 | 81.60 | 90.00 | 6,638.5 | -77.2 | 218.3 | 219.0 | 7.50 | 7.50 | 0.00 |
| 7,100.0 | 89.10 | 90.00 | 6,646.6 | -77.2 | 317.9 | 318.5 | 7.50 | 7.50 | 0.00 |
| 7,116.5 | 90.34 | 90.00 | 6,646.7 | -77.2 | 334.4 | 335.0 | 7.50 | 7.50 | 0.00 |
| Start 9217.5 hold at 7116.5 MD - 7" | | | | | | | | | |
| 7,200.0 | 90.34 | 90.00 | 6,646.2 | -77.2 | 417.9 | 418.5 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 90.34 | 90.00 | 6,645.6 | -77.2 | 517.9 | 518.5 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 90.34 | 90.00 | 6,645.0 | -77.2 | 617.9 | 618.5 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 90.34 | 90.00 | 6,644.4 | -77.2 | 717.9 | 718.5 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 90.34 | 90.00 | 6,643.8 | -77.2 | 817.9 | 818.5 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.34 | 90.00 | 6,643.2 | -77.2 | 917.9 | 918.5 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.34 | 90.00 | 6,642.6 | -77.2 | 1,017.9 | 1,018.5 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.34 | 90.00 | 6,642.0 | -77.2 | 1,117.9 | 1,118.5 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Database: | US_EDM | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Project: | SEC.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | North Reference: | True |
| Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 Extension (3-4-16) | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 8,000.0 | 90.34 | 90.00 | 6,641.5 | -77.2 | 1,217.9 | 1,218.5 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.34 | 90.00 | 6,640.9 | -77.2 | 1,317.9 | 1,318.5 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.34 | 90.00 | 6,640.3 | -77.2 | 1,417.9 | 1,418.5 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.34 | 90.00 | 6,639.7 | -77.2 | 1,517.9 | 1,518.5 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.34 | 90.00 | 6,639.1 | -77.2 | 1,617.9 | 1,618.5 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.34 | 90.00 | 6,638.5 | -77.2 | 1,717.9 | 1,718.5 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.34 | 90.00 | 6,637.9 | -77.2 | 1,817.9 | 1,818.5 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.34 | 90.00 | 6,637.3 | -77.2 | 1,917.9 | 1,918.5 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.34 | 90.00 | 6,636.7 | -77.2 | 2,017.9 | 2,018.5 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.34 | 90.00 | 6,636.1 | -77.2 | 2,117.9 | 2,118.5 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.34 | 90.00 | 6,635.5 | -77.2 | 2,217.9 | 2,218.5 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.34 | 90.00 | 6,634.9 | -77.2 | 2,317.9 | 2,318.4 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.34 | 90.00 | 6,634.3 | -77.2 | 2,417.9 | 2,418.4 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.34 | 90.00 | 6,633.7 | -77.2 | 2,517.9 | 2,518.4 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.34 | 90.00 | 6,633.1 | -77.2 | 2,617.9 | 2,618.4 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.34 | 90.00 | 6,632.6 | -77.2 | 2,717.9 | 2,718.4 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.34 | 90.00 | 6,632.0 | -77.2 | 2,817.9 | 2,818.4 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.34 | 90.00 | 6,631.4 | -77.2 | 2,917.9 | 2,918.4 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.34 | 90.00 | 6,630.8 | -77.2 | 3,017.9 | 3,018.4 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.34 | 90.00 | 6,630.2 | -77.2 | 3,117.9 | 3,118.4 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.34 | 90.00 | 6,629.6 | -77.2 | 3,217.9 | 3,218.4 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.34 | 90.00 | 6,629.0 | -77.2 | 3,317.9 | 3,318.4 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.34 | 90.00 | 6,628.4 | -77.2 | 3,417.9 | 3,418.4 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.34 | 90.00 | 6,627.8 | -77.2 | 3,517.9 | 3,518.4 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.34 | 90.00 | 6,627.2 | -77.2 | 3,617.9 | 3,618.4 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.34 | 90.00 | 6,626.6 | -77.2 | 3,717.9 | 3,718.4 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.34 | 90.00 | 6,626.0 | -77.2 | 3,817.9 | 3,818.4 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.34 | 90.00 | 6,625.4 | -77.2 | 3,917.9 | 3,918.4 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.34 | 90.00 | 6,624.8 | -77.2 | 4,017.9 | 4,018.4 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.34 | 90.00 | 6,624.2 | -77.2 | 4,117.9 | 4,118.4 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.34 | 90.00 | 6,623.7 | -77.2 | 4,217.9 | 4,218.4 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.34 | 90.00 | 6,623.1 | -77.2 | 4,317.9 | 4,318.3 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.34 | 90.00 | 6,622.5 | -77.2 | 4,417.9 | 4,418.3 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.34 | 90.00 | 6,621.9 | -77.2 | 4,517.9 | 4,518.3 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.34 | 90.00 | 6,621.3 | -77.2 | 4,617.9 | 4,618.3 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.34 | 90.00 | 6,620.7 | -77.2 | 4,717.9 | 4,718.3 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.34 | 90.00 | 6,620.1 | -77.2 | 4,817.9 | 4,818.3 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.34 | 90.00 | 6,619.5 | -77.2 | 4,917.9 | 4,918.3 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.34 | 90.00 | 6,618.9 | -77.2 | 5,017.9 | 5,018.3 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.34 | 90.00 | 6,618.3 | -77.2 | 5,117.9 | 5,118.3 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.34 | 90.00 | 6,617.7 | -77.2 | 5,217.8 | 5,218.3 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.34 | 90.00 | 6,617.1 | -77.2 | 5,317.8 | 5,318.3 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.34 | 90.00 | 6,616.5 | -77.2 | 5,417.8 | 5,418.3 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.34 | 90.00 | 6,615.9 | -77.2 | 5,517.8 | 5,518.3 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.34 | 90.00 | 6,615.3 | -77.2 | 5,617.8 | 5,618.3 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.34 | 90.00 | 6,614.8 | -77.2 | 5,717.8 | 5,718.3 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.34 | 90.00 | 6,614.2 | -77.2 | 5,817.8 | 5,818.3 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.34 | 90.00 | 6,613.6 | -77.2 | 5,917.8 | 5,918.3 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.34 | 90.00 | 6,613.0 | -77.2 | 6,017.8 | 6,018.3 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.34 | 90.00 | 6,612.4 | -77.2 | 6,117.8 | 6,118.3 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.34 | 90.00 | 6,611.8 | -77.2 | 6,217.8 | 6,218.3 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.34 | 90.00 | 6,611.2 | -77.2 | 6,317.8 | 6,318.2 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.34 | 90.00 | 6,610.6 | -77.2 | 6,417.8 | 6,418.2 | 0.00 | 0.00 | 0.00 |

| | | | |
|-----------|--------------------------------------|------------------------------|-----------------------------|
| Database: | US_EDM | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Project: | SEC.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | North Reference: | True |
| Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 Extension (3-4-16) | | |

| Planned Survey | | | | | | | | | |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 13,300.0 | 90.34 | 90.00 | 6,610.0 | -77.2 | 6,517.8 | 6,518.2 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.34 | 90.00 | 6,609.4 | -77.2 | 6,617.8 | 6,618.2 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.34 | 90.00 | 6,608.8 | -77.2 | 6,717.8 | 6,718.2 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.34 | 90.00 | 6,608.2 | -77.2 | 6,817.8 | 6,818.2 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.34 | 90.00 | 6,607.6 | -77.2 | 6,917.8 | 6,918.2 | 0.00 | 0.00 | 0.00 |
| 13,716.5 | 90.34 | 90.00 | 6,607.5 | -77.2 | 6,934.4 | 6,934.8 | 0.00 | 0.00 | 0.00 |
| BHL 2402'FNL & 2140'FWL, Sec.25 | | | | | | | | | |
| 13,800.0 | 90.34 | 90.00 | 6,607.0 | -77.2 | 7,017.8 | 7,018.2 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.34 | 90.00 | 6,606.4 | -77.2 | 7,117.8 | 7,118.2 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.34 | 90.00 | 6,605.9 | -77.2 | 7,217.8 | 7,218.2 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.34 | 90.00 | 6,605.3 | -77.2 | 7,317.8 | 7,318.2 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.34 | 90.00 | 6,604.7 | -77.2 | 7,417.8 | 7,418.2 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.34 | 90.00 | 6,604.1 | -77.2 | 7,517.8 | 7,518.2 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.34 | 90.00 | 6,603.5 | -77.2 | 7,617.8 | 7,618.2 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.34 | 90.00 | 6,602.9 | -77.2 | 7,717.8 | 7,718.2 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.34 | 90.00 | 6,602.3 | -77.2 | 7,817.8 | 7,818.2 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.34 | 90.00 | 6,601.7 | -77.2 | 7,917.8 | 7,918.2 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.34 | 90.00 | 6,601.1 | -77.2 | 8,017.8 | 8,018.2 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.34 | 90.00 | 6,600.5 | -77.2 | 8,117.8 | 8,118.2 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.34 | 90.00 | 6,599.9 | -77.2 | 8,217.8 | 8,218.2 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.34 | 90.00 | 6,599.3 | -77.2 | 8,317.8 | 8,318.1 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.34 | 90.00 | 6,598.7 | -77.2 | 8,417.8 | 8,418.1 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.34 | 90.00 | 6,598.1 | -77.2 | 8,517.8 | 8,518.1 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.34 | 90.00 | 6,597.5 | -77.2 | 8,617.8 | 8,618.1 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.34 | 90.00 | 6,596.9 | -77.2 | 8,717.8 | 8,718.1 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.34 | 90.00 | 6,596.4 | -77.2 | 8,817.8 | 8,818.1 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.34 | 90.00 | 6,595.8 | -77.2 | 8,917.8 | 8,918.1 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.34 | 90.00 | 6,595.2 | -77.2 | 9,017.8 | 9,018.1 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.34 | 90.00 | 6,594.6 | -77.2 | 9,117.8 | 9,118.1 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.34 | 90.00 | 6,594.0 | -77.2 | 9,217.8 | 9,218.1 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.34 | 90.00 | 6,593.4 | -77.2 | 9,317.8 | 9,318.1 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.34 | 90.00 | 6,592.8 | -77.2 | 9,417.8 | 9,418.1 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.34 | 90.00 | 6,592.2 | -77.2 | 9,517.8 | 9,518.1 | 0.00 | 0.00 | 0.00 |
| 16,334.1 | 90.34 | 90.00 | 6,592.0 | -77.2 | 9,551.8 | 9,552.2 | 0.00 | 0.00 | 0.00 |
| TD at 16334.1 - BHL 2438'FNL & 500'FEL, Sec.25 | | | | | | | | | |

| Design Targets | | | | | | | | | |
|---------------------------|---------------|--------------|----------|------------|------------|-----------------|----------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| SHL 2378'FNL & 484'FW | 0.00 | 0.00 | 1.0 | 0.0 | 0.0 | 1,379,524.57 | 3,271,750.97 | 40.371094 | -104.524666 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| BHL 2438'FNL & 500'FE | 0.00 | 0.00 | 6,592.0 | -77.2 | 9,551.8 | 1,379,552.42 | 3,281,302.67 | 40.370877 | -104.490386 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| | | | |
|------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Database: | US_EDM | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Project: | SEC.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | North Reference: | True |
| Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 Extension (3-4-16) | | |

| Casing Points | | | | |
|---------------------|---------------------|------|---------------------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
| 7,116.5 | 6,646.7 | 7" | 7 | 8-3/4 |

| Formations | | | | | |
|---------------------|---------------------|----------------|-----------|---------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| 3,418.8 | 3,410.0 | Parkman | | 0.00 | |
| 4,130.9 | 4,115.0 | Sussex | | 0.00 | |
| 4,529.9 | 4,510.0 | Shannon | | 0.00 | |
| 6,383.6 | 6,325.0 | Sharon Springs | | 0.00 | |
| 6,558.8 | 6,455.0 | Niobrara A | | 0.00 | |
| 6,684.2 | 6,530.0 | Niobrara B | | 0.00 | |
| 6,891.1 | 6,615.0 | Niobrara C | | 0.00 | |

| Plan Annotations | | | | |
|---------------------|---------------------|-------------------|------------|--------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 2,000.0 | 2,000.0 | 0.0 | 0.0 | KOP - Start Build 1.00 |
| 5,323.3 | 5,295.4 | -10.1 | -56.5 | Start Drop -2.00 |
| 5,912.0 | 5,882.8 | -72.2 | -405.7 | KOP #2 - Start Build 7.50 |
| 7,116.5 | 6,646.7 | -77.2 | -434.0 | Start 9217.5 hold at 7116.5 MD |
| 16,334.1 | 6,592.0 | -77.2 | -434.0 | TD at 16334.1 |



Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Bihain 5N64W26GK Pad Sec.26-T5N-R64W

Bihain 26G-312

Wellbore #1

Plan #1 Extension (3-4-16)

Anticollision Report

09 March, 2016



| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | Plan #1 Extension (3-4-16) | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | Stations | Error Model: | ISCWSA |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 1,000.0 ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | Casing Method: | Not applied |

| | | | | |
|----------------------------|----------------|--|------------------|--------------------|
| Survey Tool Program | Date | 3/9/2016 | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| 0.0 | 16,334.1 | Plan #1 Extension (3-4-16) (Wellbore #1) | MWD | MWD - Standard |

| Summary | | | | | | |
|---|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------------------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| Bihain 5N64W26GK Pad Sec.26-T5N-R64W | | | | | | |
| Bihain 26F-232 - Wellbore #1 - Plan #1 Extension (3-3-16) | 1,000.0 | 1,000.0 | 45.0 | 40.7 | 10.529 | CC, ES |
| Bihain 26F-232 - Wellbore #1 - Plan #1 Extension (3-3-16) | 16,334.1 | 16,284.8 | 761.0 | 213.7 | 1.391 | Level 3, SF |
| Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16) | 1,200.0 | 1,200.0 | 29.9 | 24.7 | 5.782 | CC |
| Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16) | 16,334.1 | 16,344.5 | 548.0 | -0.9 | 0.998 | Level 1, ES, SF |
| Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1) | 1,583.3 | 1,583.4 | 14.4 | 7.6 | 2.106 | CC |
| Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1) | 16,334.1 | 16,265.1 | 246.5 | -274.6 | 0.473 | Level 1, ES, SF |
| Bihain 26G-212 - Wellbore #1 - Plan #1 Extended (3-3-16) | 1,600.0 | 1,600.0 | 14.8 | 7.9 | 2.129 | CC |
| Bihain 26G-212 - Wellbore #1 - Plan #1 Extended (3-3-16) | 16,334.1 | 16,253.1 | 247.0 | -284.4 | 0.465 | Level 1, ES, SF |
| Existing Wells Pad Sec.26-T5N-R64W | | | | | | |
| Bihain 26-2 (Exist.) - Wellbore #1 - Wellbore #1 | 8,292.9 | 6,609.7 | 461.6 | 278.7 | 2.523 | CC |
| Bihain 26-2 (Exist.) - Wellbore #1 - Wellbore #1 | 8,300.0 | 6,609.7 | 461.6 | 278.5 | 2.521 | ES, SF |
| Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1 | 2,000.0 | 1,972.0 | 453.5 | 409.7 | 10.349 | CC |
| Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1 | 7,000.0 | 6,610.5 | 482.9 | 330.7 | 3.173 | ES, SF |
| Monfort Kuner B 26-7 (Exist.) - Wellbore #1 - Wellbore #1 | 9,620.6 | 6,597.8 | 489.0 | 270.2 | 2.234 | CC, ES, SF |
| Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1 | 10,862.5 | 6,587.7 | 448.0 | 313.3 | 3.327 | CC, ES |
| Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1 | 10,900.0 | 6,584.9 | 449.5 | 313.9 | 3.313 | SF |
| Kuner 8-2-25 Pad Sec.25-T5N-R64W | | | | | | |
| Kuner 32-25 - Wellbore #1 - Wellbore #1 | 14,839.5 | 6,912.6 | 470.7 | 202.5 | 1.755 | CC, ES, SF |
| Kuner 42-25 - Wellbore #1 - Wellbore #1 | 16,150.3 | 6,650.2 | 482.7 | 197.1 | 1.690 | CC, ES, SF |
| Kuner 6-4-25 - Wellbore #1 - Wellbore #1 | 15,540.0 | 6,861.9 | 94.1 | -182.7 | 0.340 | Level 1, CC, ES, SF |

| Offset Design | Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-232 - Wellbore #1 - Plan #1 Extension (3-3-16) | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|------------------------|--|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|--------------------|----------------------|-----------------------|-------------------|---------------------------|--------|
| Survey Program: | 0-MWD | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | Minimum Separation | | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -50.21 | 28.8 | -34.6 | 45.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -50.21 | 28.8 | -34.6 | 45.0 | 44.7 | 0.22 | 200.054 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -50.21 | 28.8 | -34.6 | 45.0 | 44.3 | 0.67 | 66.685 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | -50.21 | 28.8 | -34.6 | 45.0 | 43.8 | 1.12 | 40.011 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | -50.21 | 28.8 | -34.6 | 45.0 | 43.4 | 1.57 | 28.579 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -50.21 | 28.8 | -34.6 | 45.0 | 42.9 | 2.02 | 22.228 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16) | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 0-MWD | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.2 | 1.2 | -50.21 | 28.8 | -34.6 | 45.0 | 42.5 | 2.47 | 18.187 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.5 | 1.5 | -50.21 | 28.8 | -34.6 | 45.0 | 42.0 | 2.92 | 15.389 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.7 | 1.7 | -50.21 | 28.8 | -34.6 | 45.0 | 41.6 | 3.37 | 13.337 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 1.9 | 1.9 | -50.21 | 28.8 | -34.6 | 45.0 | 41.1 | 3.82 | 11.768 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 2.1 | 2.1 | -50.21 | 28.8 | -34.6 | 45.0 | 40.7 | 4.27 | 10.529 CC, ES | |
| 1,100.0 | 1,100.0 | 1,098.9 | 1,098.9 | 2.4 | 2.4 | -49.70 | 29.9 | -35.2 | 46.2 | 41.5 | 4.72 | 9.796 | |
| 1,200.0 | 1,200.0 | 1,197.6 | 1,197.5 | 2.6 | 2.6 | -48.33 | 33.1 | -37.2 | 49.9 | 44.7 | 5.16 | 9.671 | |
| 1,300.0 | 1,300.0 | 1,296.1 | 1,295.8 | 2.8 | 2.8 | -46.44 | 38.6 | -40.5 | 56.1 | 50.5 | 5.61 | 10.007 | |
| 1,400.0 | 1,400.0 | 1,394.2 | 1,393.5 | 3.0 | 3.0 | -44.42 | 46.1 | -45.2 | 64.9 | 58.8 | 6.06 | 10.701 | |
| 1,500.0 | 1,500.0 | 1,491.8 | 1,490.4 | 3.3 | 3.3 | -42.51 | 55.7 | -51.1 | 76.2 | 69.7 | 6.53 | 11.669 | |
| 1,600.0 | 1,600.0 | 1,588.7 | 1,586.4 | 3.5 | 3.5 | -40.83 | 67.4 | -58.2 | 90.1 | 83.1 | 7.01 | 12.842 | |
| 1,700.0 | 1,700.0 | 1,684.8 | 1,681.2 | 3.7 | 3.8 | -39.42 | 81.0 | -66.6 | 106.5 | 99.0 | 7.52 | 14.159 | |
| 1,800.0 | 1,800.0 | 1,781.8 | 1,776.4 | 3.9 | 4.1 | -38.26 | 96.4 | -76.0 | 125.1 | 117.0 | 8.05 | 15.526 | |
| 1,900.0 | 1,900.0 | 1,880.0 | 1,872.8 | 4.2 | 4.5 | -37.37 | 112.3 | -85.8 | 143.9 | 135.3 | 8.61 | 16.716 | |
| 2,000.0 | 2,000.0 | 1,978.2 | 1,969.2 | 4.4 | 4.8 | -36.69 | 128.2 | -95.5 | 162.8 | 153.6 | 9.18 | 17.741 | |
| 2,100.0 | 2,100.0 | 2,076.4 | 2,065.7 | 4.6 | 5.2 | 64.02 | 144.1 | -105.3 | 181.3 | 172.1 | 9.21 | 19.692 | |
| 2,200.0 | 2,200.0 | 2,174.8 | 2,162.2 | 4.8 | 5.5 | 64.96 | 160.0 | -115.0 | 199.1 | 189.5 | 9.64 | 20.660 | |
| 2,300.0 | 2,299.9 | 2,273.1 | 2,258.8 | 5.0 | 5.9 | 66.15 | 175.9 | -124.8 | 216.3 | 206.3 | 10.08 | 21.467 | |
| 2,400.0 | 2,399.7 | 2,371.6 | 2,355.5 | 5.2 | 6.3 | 67.54 | 191.8 | -134.5 | 233.0 | 222.4 | 10.52 | 22.136 | |
| 2,500.0 | 2,499.4 | 2,470.0 | 2,452.1 | 5.4 | 6.6 | 69.11 | 207.7 | -144.3 | 249.1 | 238.1 | 10.98 | 22.686 | |
| 2,600.0 | 2,598.9 | 2,568.4 | 2,548.7 | 5.6 | 7.0 | 70.83 | 223.6 | -154.1 | 264.9 | 253.5 | 11.45 | 23.134 | |
| 2,700.0 | 2,698.3 | 2,666.7 | 2,645.3 | 5.9 | 7.4 | 72.68 | 239.5 | -163.8 | 280.4 | 268.5 | 11.94 | 23.490 | |
| 2,800.0 | 2,797.4 | 2,765.0 | 2,741.7 | 6.1 | 7.8 | 74.64 | 255.4 | -173.5 | 295.8 | 283.3 | 12.45 | 23.767 | |
| 2,811.9 | 2,809.2 | 2,776.6 | 2,753.2 | 6.1 | 7.9 | 74.88 | 257.3 | -174.7 | 297.6 | 285.1 | 12.51 | 23.795 | |
| 2,900.0 | 2,896.4 | 2,863.2 | 2,838.1 | 6.4 | 8.2 | 76.71 | 271.3 | -183.3 | 311.3 | 298.3 | 12.97 | 23.991 | |
| 3,000.0 | 2,995.4 | 2,961.3 | 2,934.5 | 6.6 | 8.6 | 78.61 | 287.2 | -193.0 | 327.1 | 313.6 | 13.52 | 24.198 | |
| 3,100.0 | 3,094.4 | 3,059.5 | 3,030.9 | 6.9 | 9.0 | 80.33 | 303.0 | -202.8 | 343.3 | 329.2 | 14.08 | 24.387 | |
| 3,200.0 | 3,193.4 | 3,157.7 | 3,127.3 | 7.2 | 9.4 | 81.89 | 318.9 | -212.5 | 359.7 | 345.1 | 14.65 | 24.561 | |
| 3,300.0 | 3,292.4 | 3,255.9 | 3,223.7 | 7.5 | 9.8 | 83.32 | 334.8 | -222.2 | 376.4 | 361.2 | 15.23 | 24.720 | |
| 3,400.0 | 3,391.4 | 3,354.1 | 3,320.1 | 7.8 | 10.2 | 84.63 | 350.7 | -232.0 | 393.3 | 377.5 | 15.82 | 24.866 | |
| 3,500.0 | 3,490.4 | 3,452.2 | 3,416.5 | 8.1 | 10.6 | 85.83 | 366.5 | -241.7 | 410.4 | 393.9 | 16.41 | 25.000 | |
| 3,600.0 | 3,589.4 | 3,550.4 | 3,512.9 | 8.4 | 11.0 | 86.93 | 382.4 | -251.4 | 427.6 | 410.6 | 17.02 | 25.123 | |
| 3,700.0 | 3,688.4 | 3,648.6 | 3,609.3 | 8.7 | 11.4 | 87.95 | 398.3 | -261.2 | 445.0 | 427.3 | 17.63 | 25.236 | |
| 3,800.0 | 3,787.4 | 3,746.8 | 3,705.7 | 9.0 | 11.8 | 88.89 | 414.2 | -270.9 | 462.5 | 444.2 | 18.25 | 25.341 | |
| 3,900.0 | 3,886.4 | 3,844.9 | 3,802.1 | 9.3 | 12.2 | 89.77 | 430.0 | -280.7 | 480.1 | 461.2 | 18.87 | 25.438 | |
| 4,000.0 | 3,985.4 | 3,943.1 | 3,898.5 | 9.6 | 12.6 | 90.58 | 445.9 | -290.4 | 497.8 | 478.3 | 19.50 | 25.528 | |
| 4,100.0 | 4,084.4 | 4,041.3 | 3,994.9 | 9.9 | 13.0 | 91.34 | 461.8 | -300.1 | 515.6 | 495.5 | 20.13 | 25.612 | |
| 4,200.0 | 4,183.4 | 4,139.5 | 4,091.3 | 10.3 | 13.4 | 92.04 | 477.7 | -309.9 | 533.5 | 512.8 | 20.77 | 25.691 | |
| 4,300.0 | 4,282.4 | 4,237.7 | 4,187.7 | 10.6 | 13.8 | 92.70 | 493.5 | -319.6 | 551.5 | 530.1 | 21.41 | 25.764 | |
| 4,400.0 | 4,381.4 | 4,335.8 | 4,284.1 | 10.9 | 14.2 | 93.32 | 509.4 | -329.3 | 569.5 | 547.5 | 22.05 | 25.832 | |
| 4,500.0 | 4,480.4 | 4,434.0 | 4,380.5 | 11.2 | 14.6 | 93.90 | 525.3 | -339.1 | 587.6 | 564.9 | 22.69 | 25.897 | |
| 4,600.0 | 4,579.4 | 4,532.2 | 4,476.9 | 11.6 | 15.0 | 94.45 | 541.2 | -348.8 | 605.8 | 582.4 | 23.34 | 25.957 | |
| 4,700.0 | 4,678.4 | 4,630.4 | 4,573.3 | 11.9 | 15.4 | 94.97 | 557.0 | -358.5 | 624.0 | 600.0 | 23.99 | 26.014 | |
| 4,800.0 | 4,777.4 | 4,728.6 | 4,669.7 | 12.2 | 15.9 | 95.45 | 572.9 | -368.3 | 642.2 | 617.6 | 24.64 | 26.068 | |
| 4,900.0 | 4,876.4 | 4,826.7 | 4,766.1 | 12.6 | 16.3 | 95.91 | 588.8 | -378.0 | 660.5 | 635.2 | 25.29 | 26.120 | |
| 5,000.0 | 4,975.4 | 4,924.9 | 4,862.5 | 12.9 | 16.7 | 96.34 | 604.7 | -387.8 | 678.8 | 652.9 | 25.94 | 26.168 | |
| 5,100.0 | 5,074.4 | 5,023.1 | 4,958.9 | 13.2 | 17.1 | 96.75 | 620.5 | -397.5 | 697.2 | 670.6 | 26.60 | 26.214 | |
| 5,200.0 | 5,173.4 | 5,121.3 | 5,055.3 | 13.6 | 17.5 | 97.14 | 636.4 | -407.2 | 715.6 | 688.3 | 27.25 | 26.257 | |
| 5,300.0 | 5,272.3 | 5,247.0 | 5,179.2 | 13.9 | 17.9 | 97.72 | 654.5 | -418.3 | 732.2 | 704.3 | 27.93 | 26.213 | |
| 5,323.3 | 5,295.4 | 5,276.6 | 5,208.5 | 14.0 | 18.0 | 97.89 | 658.1 | -420.5 | 735.5 | 707.5 | 28.08 | 26.190 | |
| 5,400.0 | 5,371.5 | 5,374.3 | 5,305.5 | 14.2 | 18.2 | 98.58 | 668.0 | -426.6 | 744.9 | 716.4 | 28.56 | 26.084 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16) | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 0-MWD | | | | | | | | | | | | | |
| Reference | | | | Offset | | | Semi Major Axis | | Distance | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 5,500.0 | 5,471.0 | 5,502.7 | 5,433.4 | 14.4 | 18.5 | 99.29 | 676.8 | -432.0 | 753.4 | 724.3 | 29.08 | 25.904 | |
| 5,600.0 | 5,570.8 | 5,631.6 | 5,562.3 | 14.6 | 18.7 | 99.80 | 680.8 | -434.4 | 757.5 | 728.0 | 29.54 | 25.645 | |
| 5,700.0 | 5,670.8 | 5,740.1 | 5,670.8 | 14.8 | 18.8 | 100.03 | 681.0 | -434.6 | 758.2 | 728.2 | 29.92 | 25.340 | |
| 5,729.2 | 5,700.0 | 5,769.3 | 5,700.0 | 14.9 | 18.9 | -0.04 | 681.0 | -434.6 | 758.2 | 728.1 | 30.07 | 25.210 | |
| 5,800.0 | 5,770.8 | 5,840.1 | 5,770.8 | 15.0 | 19.0 | -0.04 | 681.0 | -434.6 | 758.2 | 727.9 | 30.32 | 25.005 | |
| 5,859.9 | 5,830.7 | 5,900.0 | 5,830.7 | 15.1 | 19.1 | 0.00 | 681.0 | -434.1 | 758.2 | 727.6 | 30.53 | 24.833 | |
| 5,900.0 | 5,870.8 | 5,940.0 | 5,870.5 | 15.1 | 19.1 | 0.18 | 681.0 | -431.6 | 758.2 | 727.5 | 30.65 | 24.733 | |
| 5,912.0 | 5,882.8 | 5,951.9 | 5,882.4 | 15.2 | 19.1 | 0.27 | 681.0 | -430.4 | 758.2 | 727.5 | 30.69 | 24.705 | |
| 5,950.0 | 5,920.7 | 5,989.4 | 5,919.6 | 15.2 | 19.1 | -89.44 | 681.0 | -425.6 | 758.2 | 727.5 | 30.76 | 24.651 | |
| 6,000.0 | 5,970.6 | 6,038.5 | 5,967.8 | 15.3 | 19.2 | -89.05 | 681.0 | -416.6 | 758.3 | 727.4 | 30.86 | 24.575 | |
| 6,050.0 | 6,020.0 | 6,087.3 | 6,015.1 | 15.3 | 19.2 | -88.67 | 681.0 | -404.6 | 758.4 | 727.5 | 30.92 | 24.531 | |
| 6,100.0 | 6,068.9 | 6,135.7 | 6,061.2 | 15.3 | 19.1 | -88.30 | 681.0 | -389.7 | 758.5 | 727.6 | 30.94 | 24.514 | |
| 6,150.0 | 6,116.9 | 6,183.9 | 6,106.0 | 15.3 | 19.1 | -87.93 | 681.0 | -372.0 | 758.7 | 727.7 | 30.94 | 24.518 | |
| 6,200.0 | 6,164.0 | 6,231.8 | 6,149.4 | 15.3 | 19.1 | -87.58 | 681.0 | -351.6 | 758.9 | 727.9 | 30.93 | 24.536 | |
| 6,250.0 | 6,209.8 | 6,279.5 | 6,191.2 | 15.3 | 19.0 | -87.23 | 681.0 | -328.7 | 759.1 | 728.2 | 30.91 | 24.558 | |
| 6,300.0 | 6,254.3 | 6,326.8 | 6,231.2 | 15.2 | 19.0 | -86.90 | 681.0 | -303.4 | 759.3 | 728.4 | 30.90 | 24.575 | |
| 6,350.0 | 6,297.2 | 6,374.0 | 6,269.4 | 15.2 | 18.9 | -86.58 | 681.0 | -275.8 | 759.5 | 728.6 | 30.91 | 24.573 | |
| 6,400.0 | 6,338.2 | 6,420.9 | 6,305.7 | 15.2 | 18.9 | -86.28 | 681.0 | -246.1 | 759.8 | 728.8 | 30.96 | 24.540 | |
| 6,450.0 | 6,377.4 | 6,467.6 | 6,339.9 | 15.3 | 18.8 | -85.99 | 681.0 | -214.3 | 760.1 | 729.0 | 31.07 | 24.460 | |
| 6,500.0 | 6,414.4 | 6,514.1 | 6,372.0 | 15.3 | 18.8 | -85.71 | 681.0 | -180.6 | 760.3 | 729.0 | 31.26 | 24.319 | |
| 6,550.0 | 6,449.1 | 6,560.5 | 6,401.9 | 15.5 | 18.7 | -85.46 | 681.0 | -145.2 | 760.6 | 729.0 | 31.55 | 24.105 | |
| 6,600.0 | 6,481.5 | 6,606.6 | 6,429.4 | 15.6 | 18.7 | -85.22 | 681.0 | -108.2 | 760.8 | 728.9 | 31.96 | 23.806 | |
| 6,650.0 | 6,511.2 | 6,652.6 | 6,454.6 | 15.9 | 18.6 | -85.01 | 681.0 | -69.7 | 761.1 | 728.6 | 32.50 | 23.419 | |
| 6,700.0 | 6,538.3 | 6,700.0 | 6,478.1 | 16.2 | 18.6 | -84.80 | 681.0 | -28.6 | 761.3 | 728.1 | 33.20 | 22.934 | |
| 6,750.0 | 6,562.5 | 6,744.2 | 6,497.7 | 16.6 | 18.6 | -84.63 | 681.0 | 11.1 | 761.5 | 727.5 | 34.03 | 22.379 | |
| 6,800.0 | 6,583.9 | 6,789.9 | 6,515.5 | 17.1 | 18.5 | -84.48 | 681.0 | 53.1 | 761.7 | 726.7 | 35.03 | 21.745 | |
| 6,850.0 | 6,602.2 | 6,835.4 | 6,530.7 | 17.7 | 18.5 | -84.34 | 681.0 | 96.0 | 761.9 | 725.7 | 36.19 | 21.055 | |
| 6,900.0 | 6,617.5 | 6,880.9 | 6,543.3 | 18.4 | 19.1 | -84.23 | 681.0 | 139.7 | 762.0 | 724.5 | 37.49 | 20.325 | |
| 6,950.0 | 6,629.6 | 6,926.3 | 6,553.2 | 19.2 | 19.8 | -84.14 | 681.0 | 184.0 | 762.2 | 723.2 | 38.93 | 19.578 | |
| 7,000.0 | 6,638.5 | 6,971.6 | 6,560.5 | 20.0 | 20.6 | -84.08 | 681.0 | 228.7 | 762.2 | 721.8 | 40.49 | 18.825 | |
| 7,050.0 | 6,644.2 | 7,016.9 | 6,565.2 | 20.8 | 21.4 | -84.03 | 681.0 | 273.8 | 762.3 | 720.1 | 42.16 | 18.082 | |
| 7,100.0 | 6,646.6 | 7,062.2 | 6,567.1 | 21.8 | 22.3 | -84.01 | 681.0 | 319.0 | 762.3 | 718.4 | 43.91 | 17.361 | |
| 7,116.5 | 6,646.7 | 7,077.3 | 6,567.2 | 22.1 | 22.6 | -84.01 | 681.0 | 334.1 | 762.3 | 717.8 | 44.51 | 17.127 | |
| 7,200.0 | 6,646.2 | 7,160.8 | 6,566.8 | 23.7 | 24.3 | -84.02 | 681.0 | 417.6 | 762.3 | 714.5 | 47.82 | 15.942 | |
| 7,300.0 | 6,645.6 | 7,260.8 | 6,566.4 | 25.9 | 26.4 | -84.03 | 681.0 | 517.6 | 762.3 | 710.3 | 52.03 | 14.650 | |
| 7,400.0 | 6,645.0 | 7,360.8 | 6,565.9 | 28.1 | 28.7 | -84.05 | 681.0 | 617.6 | 762.3 | 705.8 | 56.49 | 13.494 | |
| 7,500.0 | 6,644.4 | 7,460.8 | 6,565.5 | 30.5 | 31.0 | -84.06 | 681.0 | 717.6 | 762.3 | 701.1 | 61.14 | 12.468 | |
| 7,600.0 | 6,643.8 | 7,560.8 | 6,565.1 | 32.9 | 33.4 | -84.07 | 681.0 | 817.6 | 762.3 | 696.3 | 65.93 | 11.562 | |
| 7,700.0 | 6,643.2 | 7,660.8 | 6,564.6 | 35.3 | 35.9 | -84.08 | 681.0 | 917.6 | 762.2 | 691.4 | 70.84 | 10.760 | |
| 7,800.0 | 6,642.6 | 7,760.8 | 6,564.2 | 37.9 | 38.4 | -84.09 | 681.0 | 1,017.6 | 762.2 | 686.4 | 75.84 | 10.050 | |
| 7,900.0 | 6,642.0 | 7,860.8 | 6,563.8 | 40.4 | 41.0 | -84.10 | 681.0 | 1,117.6 | 762.2 | 681.3 | 80.93 | 9.418 | |
| 8,000.0 | 6,641.5 | 7,960.8 | 6,563.3 | 43.0 | 43.5 | -84.12 | 681.0 | 1,217.6 | 762.2 | 676.1 | 86.07 | 8.855 | |
| 8,100.0 | 6,640.9 | 8,060.8 | 6,562.9 | 45.6 | 46.1 | -84.13 | 681.0 | 1,317.6 | 762.2 | 670.9 | 91.27 | 8.350 | |
| 8,200.0 | 6,640.3 | 8,160.8 | 6,562.4 | 48.3 | 48.8 | -84.14 | 681.0 | 1,417.6 | 762.2 | 665.6 | 96.52 | 7.897 | |
| 8,300.0 | 6,639.7 | 8,260.8 | 6,562.0 | 50.9 | 51.4 | -84.15 | 681.0 | 1,517.6 | 762.1 | 660.3 | 101.80 | 7.487 | |
| 8,400.0 | 6,639.1 | 8,360.8 | 6,561.6 | 53.6 | 54.1 | -84.16 | 681.0 | 1,617.6 | 762.1 | 655.0 | 107.11 | 7.115 | |
| 8,500.0 | 6,638.5 | 8,460.8 | 6,561.1 | 56.3 | 56.8 | -84.17 | 681.0 | 1,717.6 | 762.1 | 649.6 | 112.45 | 6.777 | |
| 8,600.0 | 6,637.9 | 8,560.8 | 6,560.7 | 59.0 | 59.4 | -84.19 | 681.0 | 1,817.6 | 762.1 | 644.3 | 117.82 | 6.468 | |
| 8,700.0 | 6,637.3 | 8,660.8 | 6,560.3 | 61.7 | 62.1 | -84.20 | 681.0 | 1,917.6 | 762.1 | 638.9 | 123.20 | 6.185 | |
| 8,800.0 | 6,636.7 | 8,760.8 | 6,559.8 | 64.4 | 64.8 | -84.21 | 681.0 | 2,017.6 | 762.1 | 633.4 | 128.61 | 5.925 | |
| 8,900.0 | 6,636.1 | 8,860.8 | 6,559.4 | 67.1 | 67.6 | -84.22 | 681.0 | 2,117.6 | 762.0 | 628.0 | 134.03 | 5.686 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16) | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 0-MWD | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 9,000.0 | 6,635.5 | 8,960.8 | 6,559.0 | 69.8 | 70.3 | -84.23 | 681.0 | 2,217.6 | 762.0 | 622.6 | 139.46 | 5.464 | |
| 9,100.0 | 6,634.9 | 9,060.8 | 6,558.5 | 72.6 | 73.0 | -84.25 | 681.0 | 2,317.6 | 762.0 | 617.1 | 144.91 | 5.258 | |
| 9,200.0 | 6,634.3 | 9,160.8 | 6,558.1 | 75.3 | 75.8 | -84.26 | 681.0 | 2,417.6 | 762.0 | 611.6 | 150.37 | 5.067 | |
| 9,300.0 | 6,633.7 | 9,260.8 | 6,557.6 | 78.1 | 78.5 | -84.27 | 681.0 | 2,517.6 | 762.0 | 606.1 | 155.84 | 4.890 | |
| 9,400.0 | 6,633.1 | 9,360.8 | 6,557.2 | 80.8 | 81.2 | -84.28 | 681.0 | 2,617.6 | 762.0 | 600.6 | 161.31 | 4.723 | |
| 9,500.0 | 6,632.6 | 9,460.8 | 6,556.8 | 83.6 | 84.0 | -84.29 | 681.0 | 2,717.6 | 761.9 | 595.1 | 166.80 | 4.568 | |
| 9,600.0 | 6,632.0 | 9,560.8 | 6,556.3 | 86.3 | 86.7 | -84.30 | 681.0 | 2,817.6 | 761.9 | 589.6 | 172.29 | 4.422 | |
| 9,700.0 | 6,631.4 | 9,660.8 | 6,555.9 | 89.1 | 89.5 | -84.32 | 681.0 | 2,917.6 | 761.9 | 584.1 | 177.79 | 4.285 | |
| 9,800.0 | 6,630.8 | 9,760.8 | 6,555.5 | 91.9 | 92.3 | -84.33 | 681.0 | 3,017.6 | 761.9 | 578.6 | 183.30 | 4.157 | |
| 9,900.0 | 6,630.2 | 9,860.8 | 6,555.0 | 94.6 | 95.0 | -84.34 | 681.0 | 3,117.6 | 761.9 | 573.1 | 188.81 | 4.035 | |
| 10,000.0 | 6,629.6 | 9,960.8 | 6,554.6 | 97.4 | 97.8 | -84.35 | 681.0 | 3,217.6 | 761.9 | 567.5 | 194.33 | 3.921 | |
| 10,100.0 | 6,629.0 | 10,060.8 | 6,554.2 | 100.2 | 100.5 | -84.36 | 681.0 | 3,317.6 | 761.8 | 562.0 | 199.85 | 3.812 | |
| 10,200.0 | 6,628.4 | 10,160.8 | 6,553.7 | 102.9 | 103.3 | -84.37 | 681.0 | 3,417.6 | 761.8 | 556.5 | 205.37 | 3.709 | |
| 10,300.0 | 6,627.8 | 10,260.8 | 6,553.3 | 105.7 | 106.1 | -84.39 | 681.0 | 3,517.6 | 761.8 | 550.9 | 210.90 | 3.612 | |
| 10,400.0 | 6,627.2 | 10,360.8 | 6,552.8 | 108.5 | 108.9 | -84.40 | 681.0 | 3,617.6 | 761.8 | 545.4 | 216.44 | 3.520 | |
| 10,500.0 | 6,626.6 | 10,460.8 | 6,552.4 | 111.3 | 111.6 | -84.41 | 681.0 | 3,717.6 | 761.8 | 539.8 | 221.97 | 3.432 | |
| 10,600.0 | 6,626.0 | 10,560.8 | 6,552.0 | 114.1 | 114.4 | -84.42 | 681.0 | 3,817.6 | 761.8 | 534.2 | 227.51 | 3.348 | |
| 10,700.0 | 6,625.4 | 10,660.8 | 6,551.5 | 116.8 | 117.2 | -84.43 | 681.0 | 3,917.6 | 761.7 | 528.7 | 233.06 | 3.269 | |
| 10,800.0 | 6,624.8 | 10,760.8 | 6,551.1 | 119.6 | 120.0 | -84.44 | 681.0 | 4,017.6 | 761.7 | 523.1 | 238.60 | 3.192 | |
| 10,900.0 | 6,624.2 | 10,860.8 | 6,550.7 | 122.4 | 122.8 | -84.46 | 681.0 | 4,117.6 | 761.7 | 517.6 | 244.15 | 3.120 | |
| 11,000.0 | 6,623.7 | 10,960.8 | 6,550.2 | 125.2 | 125.5 | -84.47 | 681.0 | 4,217.6 | 761.7 | 512.0 | 249.70 | 3.050 | |
| 11,100.0 | 6,623.1 | 11,060.8 | 6,549.8 | 128.0 | 128.3 | -84.48 | 681.0 | 4,317.5 | 761.7 | 506.4 | 255.26 | 2.984 | |
| 11,200.0 | 6,622.5 | 11,160.8 | 6,549.4 | 130.8 | 131.1 | -84.49 | 681.0 | 4,417.5 | 761.7 | 500.9 | 260.81 | 2.920 | |
| 11,300.0 | 6,621.9 | 11,260.8 | 6,548.9 | 133.6 | 133.9 | -84.50 | 681.0 | 4,517.5 | 761.7 | 495.3 | 266.37 | 2.859 | |
| 11,400.0 | 6,621.3 | 11,360.8 | 6,548.5 | 136.3 | 136.7 | -84.52 | 681.0 | 4,617.5 | 761.6 | 489.7 | 271.93 | 2.801 | |
| 11,500.0 | 6,620.7 | 11,460.8 | 6,548.0 | 139.1 | 139.5 | -84.53 | 681.0 | 4,717.5 | 761.6 | 484.1 | 277.49 | 2.745 | |
| 11,600.0 | 6,620.1 | 11,560.8 | 6,547.6 | 141.9 | 142.3 | -84.54 | 680.9 | 4,817.5 | 761.6 | 478.5 | 283.06 | 2.691 | |
| 11,700.0 | 6,619.5 | 11,660.8 | 6,547.2 | 144.7 | 145.0 | -84.55 | 680.9 | 4,917.5 | 761.6 | 473.0 | 288.62 | 2.639 | |
| 11,800.0 | 6,618.9 | 11,760.8 | 6,546.7 | 147.5 | 147.8 | -84.56 | 680.9 | 5,017.5 | 761.6 | 467.4 | 294.19 | 2.589 | |
| 11,900.0 | 6,618.3 | 11,860.8 | 6,546.3 | 150.3 | 150.6 | -84.57 | 680.9 | 5,117.5 | 761.6 | 461.8 | 299.76 | 2.541 | |
| 12,000.0 | 6,617.7 | 11,960.8 | 6,545.9 | 153.1 | 153.4 | -84.59 | 680.9 | 5,217.5 | 761.5 | 456.2 | 305.33 | 2.494 | |
| 12,100.0 | 6,617.1 | 12,060.8 | 6,545.4 | 155.9 | 156.2 | -84.60 | 680.9 | 5,317.5 | 761.5 | 450.6 | 310.90 | 2.449 | |
| 12,200.0 | 6,616.5 | 12,160.8 | 6,545.0 | 158.7 | 159.0 | -84.61 | 680.9 | 5,417.5 | 761.5 | 445.0 | 316.47 | 2.406 | |
| 12,300.0 | 6,615.9 | 12,260.8 | 6,544.6 | 161.5 | 161.8 | -84.62 | 680.9 | 5,517.5 | 761.5 | 439.5 | 322.05 | 2.365 | |
| 12,400.0 | 6,615.3 | 12,360.8 | 6,544.1 | 164.3 | 164.6 | -84.63 | 680.9 | 5,617.5 | 761.5 | 433.9 | 327.62 | 2.324 | |
| 12,500.0 | 6,614.8 | 12,460.8 | 6,543.7 | 167.1 | 167.4 | -84.64 | 680.9 | 5,717.5 | 761.5 | 428.3 | 333.20 | 2.285 | |
| 12,600.0 | 6,614.2 | 12,560.8 | 6,543.2 | 169.9 | 170.2 | -84.66 | 680.9 | 5,817.5 | 761.5 | 422.7 | 338.77 | 2.248 | |
| 12,700.0 | 6,613.6 | 12,660.8 | 6,542.8 | 172.7 | 173.0 | -84.67 | 680.9 | 5,917.5 | 761.4 | 417.1 | 344.35 | 2.211 | |
| 12,800.0 | 6,613.0 | 12,760.8 | 6,542.4 | 175.5 | 175.8 | -84.68 | 680.9 | 6,017.5 | 761.4 | 411.5 | 349.93 | 2.176 | |
| 12,900.0 | 6,612.4 | 12,860.8 | 6,541.9 | 178.3 | 178.6 | -84.69 | 680.9 | 6,117.5 | 761.4 | 405.9 | 355.51 | 2.142 | |
| 13,000.0 | 6,611.8 | 12,960.8 | 6,541.5 | 181.1 | 181.4 | -84.70 | 680.9 | 6,217.5 | 761.4 | 400.3 | 361.09 | 2.109 | |
| 13,100.0 | 6,611.2 | 13,060.8 | 6,541.1 | 183.9 | 184.2 | -84.72 | 680.9 | 6,317.5 | 761.4 | 394.7 | 366.68 | 2.076 | |
| 13,200.0 | 6,610.6 | 13,160.8 | 6,540.6 | 186.7 | 187.0 | -84.73 | 680.9 | 6,417.5 | 761.4 | 389.1 | 372.26 | 2.045 | |
| 13,300.0 | 6,610.0 | 13,260.8 | 6,540.2 | 189.5 | 189.8 | -84.74 | 680.9 | 6,517.5 | 761.3 | 383.5 | 377.84 | 2.015 | |
| 13,400.0 | 6,609.4 | 13,360.8 | 6,539.8 | 192.3 | 192.6 | -84.75 | 680.9 | 6,617.5 | 761.3 | 377.9 | 383.43 | 1.986 | |
| 13,500.0 | 6,608.8 | 13,460.8 | 6,539.3 | 195.1 | 195.4 | -84.76 | 680.9 | 6,717.5 | 761.3 | 372.3 | 389.01 | 1.957 | |
| 13,600.0 | 6,608.2 | 13,560.8 | 6,538.9 | 197.9 | 198.2 | -84.77 | 680.9 | 6,817.5 | 761.3 | 366.7 | 394.60 | 1.929 | |
| 13,700.0 | 6,607.6 | 13,660.8 | 6,538.4 | 200.7 | 201.0 | -84.79 | 680.9 | 6,917.5 | 761.3 | 361.1 | 400.18 | 1.902 | |
| 13,800.0 | 6,607.0 | 13,760.8 | 6,538.0 | 203.5 | 203.8 | -84.80 | 680.9 | 7,017.5 | 761.3 | 355.5 | 405.77 | 1.876 | |
| 13,900.0 | 6,606.4 | 13,860.8 | 6,537.6 | 206.3 | 206.6 | -84.81 | 680.9 | 7,117.5 | 761.3 | 349.9 | 411.36 | 1.851 | |
| 14,000.0 | 6,605.9 | 13,960.8 | 6,537.1 | 209.1 | 209.4 | -84.82 | 680.9 | 7,217.5 | 761.2 | 344.3 | 416.95 | 1.826 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16) | | Offset Site Error: | | 0.0 ft |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--|---------|--------------------|--|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | | 0.0 ft | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre | | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | | | | |
| | | | | | | | +N/-S (ft) | +E/-W (ft) | | | | | | | | | |
| 14,100.0 | 6,605.3 | 14,060.8 | 6,536.7 | 211.9 | 212.2 | -84.83 | 680.9 | 7,317.5 | 761.2 | 338.7 | 422.54 | 1.802 | | | | | |
| 14,200.0 | 6,604.7 | 14,160.8 | 6,536.3 | 214.7 | 215.0 | -84.84 | 680.9 | 7,417.5 | 761.2 | 333.1 | 428.13 | 1.778 | | | | | |
| 14,300.0 | 6,604.1 | 14,260.8 | 6,535.8 | 217.5 | 217.8 | -84.86 | 680.9 | 7,517.5 | 761.2 | 327.5 | 433.72 | 1.755 | | | | | |
| 14,400.0 | 6,603.5 | 14,360.8 | 6,535.4 | 220.3 | 220.6 | -84.87 | 680.9 | 7,617.5 | 761.2 | 321.9 | 439.31 | 1.733 | | | | | |
| 14,500.0 | 6,602.9 | 14,460.8 | 6,535.0 | 223.1 | 223.4 | -84.88 | 680.9 | 7,717.5 | 761.2 | 316.3 | 444.90 | 1.711 | | | | | |
| 14,600.0 | 6,602.3 | 14,560.8 | 6,534.5 | 225.9 | 226.2 | -84.89 | 680.9 | 7,817.5 | 761.2 | 310.7 | 450.49 | 1.690 | | | | | |
| 14,700.0 | 6,601.7 | 14,660.8 | 6,534.1 | 228.7 | 229.0 | -84.90 | 680.9 | 7,917.5 | 761.1 | 305.1 | 456.09 | 1.669 | | | | | |
| 14,800.0 | 6,601.1 | 14,760.8 | 6,533.6 | 231.5 | 231.8 | -84.92 | 680.9 | 8,017.5 | 761.1 | 299.4 | 461.68 | 1.649 | | | | | |
| 14,900.0 | 6,600.5 | 14,860.8 | 6,533.2 | 234.3 | 234.6 | -84.93 | 680.9 | 8,117.5 | 761.1 | 293.8 | 467.28 | 1.629 | | | | | |
| 15,000.0 | 6,599.9 | 14,960.8 | 6,532.8 | 237.1 | 237.4 | -84.94 | 680.9 | 8,217.5 | 761.1 | 288.2 | 472.87 | 1.610 | | | | | |
| 15,100.0 | 6,599.3 | 15,060.8 | 6,532.3 | 239.9 | 240.2 | -84.95 | 680.9 | 8,317.5 | 761.1 | 282.6 | 478.46 | 1.591 | | | | | |
| 15,200.0 | 6,598.7 | 15,160.8 | 6,531.9 | 242.7 | 243.0 | -84.96 | 680.9 | 8,417.5 | 761.1 | 277.0 | 484.06 | 1.572 | | | | | |
| 15,300.0 | 6,598.1 | 15,260.8 | 6,531.5 | 245.5 | 245.8 | -84.97 | 680.9 | 8,517.5 | 761.1 | 271.4 | 489.66 | 1.554 | | | | | |
| 15,400.0 | 6,597.5 | 15,360.8 | 6,531.0 | 248.3 | 248.6 | -84.99 | 680.9 | 8,617.5 | 761.0 | 265.8 | 495.25 | 1.537 | | | | | |
| 15,500.0 | 6,596.9 | 15,460.8 | 6,530.6 | 251.1 | 251.4 | -85.00 | 680.9 | 8,717.5 | 761.0 | 260.2 | 500.85 | 1.519 | | | | | |
| 15,600.0 | 6,596.4 | 15,560.8 | 6,530.2 | 253.9 | 254.2 | -85.01 | 680.9 | 8,817.5 | 761.0 | 254.6 | 506.45 | 1.503 | | | | | |
| 15,700.0 | 6,595.8 | 15,660.8 | 6,529.7 | 256.7 | 257.0 | -85.02 | 680.9 | 8,917.5 | 761.0 | 249.0 | 512.04 | 1.486 Level 3 | | | | | |
| 15,800.0 | 6,595.2 | 15,760.8 | 6,529.3 | 259.5 | 259.8 | -85.03 | 680.9 | 9,017.5 | 761.0 | 243.3 | 517.64 | 1.470 Level 3 | | | | | |
| 15,900.0 | 6,594.6 | 15,860.8 | 6,528.9 | 262.3 | 262.6 | -85.05 | 680.9 | 9,117.5 | 761.0 | 237.7 | 523.24 | 1.454 Level 3 | | | | | |
| 16,000.0 | 6,594.0 | 15,960.8 | 6,528.4 | 265.1 | 265.4 | -85.06 | 680.9 | 9,217.5 | 761.0 | 232.1 | 528.84 | 1.439 Level 3 | | | | | |
| 16,100.0 | 6,593.4 | 16,060.8 | 6,528.0 | 267.9 | 268.2 | -85.07 | 680.9 | 9,317.5 | 760.9 | 226.5 | 534.44 | 1.424 Level 3 | | | | | |
| 16,200.0 | 6,592.8 | 16,160.8 | 6,527.5 | 270.7 | 271.0 | -85.08 | 680.9 | 9,417.5 | 760.9 | 220.9 | 540.04 | 1.409 Level 3 | | | | | |
| 16,300.0 | 6,592.2 | 16,260.8 | 6,527.1 | 273.5 | 273.8 | -85.09 | 680.9 | 9,517.5 | 760.9 | 215.3 | 545.64 | 1.395 Level 3 | | | | | |
| 16,323.3 | 6,592.1 | 16,284.1 | 6,527.0 | 274.2 | 274.5 | -85.09 | 680.9 | 9,540.8 | 760.9 | 214.0 | 546.94 | 1.391 Level 3 | | | | | |
| 16,334.1 | 6,592.0 | 16,284.8 | 6,527.0 | 274.5 | 274.5 | -85.10 | 680.9 | 9,541.5 | 761.0 | 213.7 | 547.26 | 1.391 Level 3, SF | | | | | |

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|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16) | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 0-MWD | | | | | | | | | | | | | |
| Reference | | | | Offset | | | Semi Major Axis | | Distance | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -50.68 | 18.9 | -23.1 | 29.9 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -50.68 | 18.9 | -23.1 | 29.9 | 29.7 | 0.22 | 132.996 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -50.68 | 18.9 | -23.1 | 29.9 | 29.2 | 0.67 | 44.332 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | -50.68 | 18.9 | -23.1 | 29.9 | 28.8 | 1.12 | 26.599 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | -50.68 | 18.9 | -23.1 | 29.9 | 28.3 | 1.57 | 18.999 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -50.68 | 18.9 | -23.1 | 29.9 | 27.9 | 2.02 | 14.777 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.2 | 1.2 | -50.68 | 18.9 | -23.1 | 29.9 | 27.4 | 2.47 | 12.091 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.5 | 1.5 | -50.68 | 18.9 | -23.1 | 29.9 | 27.0 | 2.92 | 10.230 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.7 | 1.7 | -50.68 | 18.9 | -23.1 | 29.9 | 26.5 | 3.37 | 8.866 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 1.9 | 1.9 | -50.68 | 18.9 | -23.1 | 29.9 | 26.1 | 3.82 | 7.823 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 2.1 | 2.1 | -50.68 | 18.9 | -23.1 | 29.9 | 25.6 | 4.27 | 7.000 | |
| 1,100.0 | 1,100.0 | 1,100.0 | 1,100.0 | 2.4 | 2.4 | -50.68 | 18.9 | -23.1 | 29.9 | 25.2 | 4.72 | 6.333 | |
| 1,200.0 | 1,200.0 | 1,200.0 | 1,200.0 | 2.6 | 2.6 | -50.68 | 18.9 | -23.1 | 29.9 | 24.7 | 5.17 | 5.782 CC | |
| 1,300.0 | 1,300.0 | 1,299.2 | 1,299.2 | 2.8 | 2.8 | -50.34 | 19.9 | -24.0 | 31.2 | 25.6 | 5.61 | 5.554 | |
| 1,400.0 | 1,400.0 | 1,398.3 | 1,398.2 | 3.0 | 3.0 | -49.45 | 22.7 | -26.6 | 35.0 | 29.0 | 6.06 | 5.786 | |
| 1,500.0 | 1,500.0 | 1,497.1 | 1,496.8 | 3.3 | 3.2 | -48.35 | 27.5 | -30.9 | 41.5 | 35.0 | 6.50 | 6.379 | |
| 1,600.0 | 1,600.0 | 1,595.5 | 1,594.8 | 3.5 | 3.5 | -47.28 | 34.1 | -36.9 | 50.5 | 43.5 | 6.95 | 7.260 | |
| 1,700.0 | 1,700.0 | 1,693.4 | 1,692.0 | 3.7 | 3.7 | -46.36 | 42.5 | -44.5 | 62.1 | 54.6 | 7.42 | 8.365 | |
| 1,800.0 | 1,800.0 | 1,790.6 | 1,788.3 | 3.9 | 4.0 | -45.62 | 52.7 | -53.8 | 76.2 | 68.3 | 7.90 | 9.643 | |
| 1,900.0 | 1,900.0 | 1,888.9 | 1,885.3 | 4.2 | 4.3 | -45.04 | 64.2 | -64.3 | 92.1 | 83.7 | 8.40 | 10.964 | |
| 2,000.0 | 2,000.0 | 1,987.6 | 1,982.7 | 4.4 | 4.5 | -44.64 | 75.9 | -75.0 | 108.1 | 99.2 | 8.92 | 12.125 | |
| 2,100.0 | 2,100.0 | 2,086.3 | 2,080.2 | 4.6 | 4.9 | 55.96 | 87.7 | -85.6 | 123.7 | 114.5 | 9.17 | 13.484 | |
| 2,200.0 | 2,200.0 | 2,185.2 | 2,177.8 | 4.8 | 5.2 | 56.94 | 99.4 | -96.3 | 138.3 | 128.7 | 9.59 | 14.410 | |
| 2,300.0 | 2,299.9 | 2,284.2 | 2,275.5 | 5.0 | 5.5 | 58.28 | 111.1 | -107.0 | 152.0 | 142.0 | 10.03 | 15.159 | |
| 2,400.0 | 2,399.7 | 2,383.3 | 2,373.3 | 5.2 | 5.8 | 59.91 | 122.9 | -117.7 | 164.9 | 154.5 | 10.47 | 15.758 | |
| 2,500.0 | 2,499.4 | 2,482.3 | 2,471.1 | 5.4 | 6.1 | 61.79 | 134.6 | -128.4 | 177.2 | 166.3 | 10.92 | 16.229 | |
| 2,600.0 | 2,598.9 | 2,581.4 | 2,568.8 | 5.6 | 6.5 | 63.88 | 146.4 | -139.0 | 188.8 | 177.5 | 11.38 | 16.590 | |
| 2,700.0 | 2,698.3 | 2,680.4 | 2,666.6 | 5.9 | 6.8 | 66.18 | 158.1 | -149.7 | 200.0 | 188.2 | 11.87 | 16.858 | |
| 2,800.0 | 2,797.4 | 2,779.4 | 2,764.3 | 6.1 | 7.2 | 68.65 | 169.8 | -160.4 | 210.9 | 198.5 | 12.37 | 17.048 | |
| 2,811.9 | 2,809.2 | 2,791.2 | 2,775.9 | 6.1 | 7.2 | 68.96 | 171.2 | -161.7 | 212.2 | 199.8 | 12.43 | 17.066 | |
| 2,900.0 | 2,896.4 | 2,878.3 | 2,861.9 | 6.4 | 7.5 | 71.22 | 181.6 | -171.1 | 221.8 | 208.9 | 12.90 | 17.194 | |
| 3,000.0 | 2,995.4 | 2,977.3 | 2,959.6 | 6.6 | 7.9 | 73.56 | 193.3 | -181.8 | 233.2 | 219.7 | 13.45 | 17.338 | |
| 3,100.0 | 3,094.4 | 3,076.2 | 3,057.2 | 6.9 | 8.2 | 75.68 | 205.0 | -192.4 | 244.8 | 230.8 | 14.01 | 17.477 | |
| 3,200.0 | 3,193.4 | 3,175.1 | 3,154.9 | 7.2 | 8.6 | 77.61 | 216.8 | -203.1 | 256.8 | 242.2 | 14.58 | 17.612 | |
| 3,300.0 | 3,292.4 | 3,274.0 | 3,252.5 | 7.5 | 8.9 | 79.36 | 228.5 | -213.8 | 269.0 | 253.9 | 15.17 | 17.740 | |
| 3,400.0 | 3,391.4 | 3,373.0 | 3,350.2 | 7.8 | 9.3 | 80.97 | 240.2 | -224.4 | 281.5 | 265.8 | 15.76 | 17.863 | |
| 3,500.0 | 3,490.4 | 3,471.9 | 3,447.8 | 8.1 | 9.6 | 82.43 | 252.0 | -235.1 | 294.2 | 277.8 | 16.36 | 17.980 | |
| 3,600.0 | 3,589.4 | 3,570.8 | 3,545.5 | 8.4 | 10.0 | 83.78 | 263.7 | -245.8 | 307.0 | 290.0 | 16.97 | 18.091 | |
| 3,700.0 | 3,688.4 | 3,669.7 | 3,643.1 | 8.7 | 10.3 | 85.01 | 275.4 | -256.4 | 320.0 | 302.4 | 17.59 | 18.196 | |
| 3,800.0 | 3,787.4 | 3,768.7 | 3,740.7 | 9.0 | 10.7 | 86.15 | 287.1 | -267.1 | 333.1 | 314.9 | 18.21 | 18.296 | |
| 3,900.0 | 3,886.4 | 3,867.6 | 3,838.4 | 9.3 | 11.1 | 87.21 | 298.9 | -277.8 | 346.4 | 327.6 | 18.84 | 18.391 | |
| 4,000.0 | 3,985.4 | 3,966.5 | 3,936.0 | 9.6 | 11.4 | 88.18 | 310.6 | -288.5 | 359.7 | 340.3 | 19.47 | 18.481 | |
| 4,100.0 | 4,084.4 | 4,065.4 | 4,033.7 | 9.9 | 11.8 | 89.09 | 322.3 | -299.1 | 373.2 | 353.1 | 20.10 | 18.567 | |
| 4,200.0 | 4,183.4 | 4,164.4 | 4,131.3 | 10.3 | 12.2 | 89.93 | 334.1 | -309.8 | 386.7 | 366.0 | 20.74 | 18.649 | |
| 4,300.0 | 4,282.4 | 4,263.3 | 4,229.0 | 10.6 | 12.5 | 90.72 | 345.8 | -320.5 | 400.4 | 379.0 | 21.38 | 18.726 | |
| 4,400.0 | 4,381.4 | 4,362.2 | 4,326.6 | 10.9 | 12.9 | 91.45 | 357.5 | -331.1 | 414.0 | 392.0 | 22.02 | 18.801 | |
| 4,500.0 | 4,480.4 | 4,461.1 | 4,424.3 | 11.2 | 13.2 | 92.14 | 369.3 | -341.8 | 427.8 | 405.1 | 22.67 | 18.871 | |
| 4,600.0 | 4,579.4 | 4,560.1 | 4,521.9 | 11.6 | 13.6 | 92.78 | 381.0 | -352.5 | 441.6 | 418.3 | 23.32 | 18.939 | |
| 4,700.0 | 4,678.4 | 4,659.0 | 4,619.5 | 11.9 | 14.0 | 93.39 | 392.7 | -363.2 | 455.4 | 431.5 | 23.97 | 19.003 | |
| 4,800.0 | 4,777.4 | 4,757.9 | 4,717.2 | 12.2 | 14.3 | 93.96 | 404.4 | -373.8 | 469.3 | 444.7 | 24.62 | 19.065 | |
| 4,900.0 | 4,876.4 | 4,856.8 | 4,814.8 | 12.6 | 14.7 | 94.49 | 416.2 | -384.5 | 483.3 | 458.0 | 25.27 | 19.124 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16) | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 0-MWD | | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,000.0 | 4,975.4 | 4,955.8 | 4,912.5 | 12.9 | 15.1 | 95.00 | 427.9 | -395.2 | 497.3 | 471.3 | 25.93 | 19.181 | | |
| 5,100.0 | 5,074.4 | 5,054.7 | 5,010.1 | 13.2 | 15.4 | 95.48 | 439.6 | -405.8 | 511.3 | 484.7 | 26.58 | 19.235 | | |
| 5,200.0 | 5,173.4 | 5,164.9 | 5,119.1 | 13.6 | 15.8 | 96.06 | 451.9 | -417.0 | 524.6 | 497.4 | 27.22 | 19.275 | | |
| 5,300.0 | 5,272.3 | 5,280.7 | 5,234.1 | 13.9 | 16.1 | 96.93 | 461.6 | -425.8 | 535.0 | 507.2 | 27.83 | 19.223 | | |
| 5,323.3 | 5,295.4 | 5,307.7 | 5,261.0 | 14.0 | 16.1 | 97.18 | 463.3 | -427.4 | 537.0 | 509.1 | 27.98 | 19.196 | | |
| 5,400.0 | 5,371.5 | 5,396.8 | 5,349.9 | 14.2 | 16.3 | 98.07 | 467.8 | -431.5 | 542.4 | 514.0 | 28.41 | 19.089 | | |
| 5,500.0 | 5,471.0 | 5,513.1 | 5,466.2 | 14.4 | 16.5 | 99.07 | 470.6 | -434.0 | 546.3 | 517.4 | 28.89 | 18.911 | | |
| 5,600.0 | 5,570.8 | 5,617.7 | 5,570.8 | 14.6 | 16.6 | 99.76 | 470.7 | -434.1 | 547.4 | 518.1 | 29.30 | 18.683 | | |
| 5,700.0 | 5,670.8 | 5,717.7 | 5,670.8 | 14.8 | 16.8 | 100.06 | 470.7 | -434.1 | 547.9 | 518.2 | 29.68 | 18.460 | | |
| 5,729.2 | 5,700.0 | 5,746.9 | 5,700.0 | 14.9 | 16.8 | -0.01 | 470.7 | -434.1 | 547.9 | 520.2 | 27.73 | 19.759 | | |
| 5,800.0 | 5,770.8 | 5,817.7 | 5,770.8 | 15.0 | 17.0 | -0.01 | 470.7 | -434.1 | 547.9 | 519.9 | 27.99 | 19.573 | | |
| 5,900.0 | 5,870.8 | 5,917.7 | 5,870.8 | 15.1 | 17.1 | -0.01 | 470.7 | -434.1 | 547.9 | 519.5 | 28.38 | 19.309 | | |
| 5,912.0 | 5,882.8 | 5,929.7 | 5,882.8 | 15.2 | 17.1 | -0.01 | 470.7 | -434.1 | 547.9 | 519.5 | 28.42 | 19.277 | | |
| 5,950.0 | 5,920.7 | 5,967.7 | 5,920.7 | 15.2 | 17.2 | -90.01 | 470.7 | -433.2 | 547.9 | 517.4 | 30.55 | 17.934 | | |
| 6,000.0 | 5,970.6 | 6,017.7 | 5,970.6 | 15.3 | 17.2 | -90.01 | 470.7 | -429.1 | 547.9 | 517.3 | 30.65 | 17.875 | | |
| 6,050.0 | 6,020.0 | 6,067.7 | 6,020.0 | 15.3 | 17.3 | -90.02 | 470.7 | -421.7 | 547.9 | 517.2 | 30.71 | 17.841 | | |
| 6,100.0 | 6,068.9 | 6,117.7 | 6,068.9 | 15.3 | 17.3 | -90.02 | 470.7 | -411.1 | 547.9 | 517.2 | 30.73 | 17.828 | | |
| 6,150.0 | 6,116.9 | 6,167.7 | 6,117.0 | 15.3 | 17.3 | -90.02 | 470.7 | -397.4 | 547.9 | 517.2 | 30.73 | 17.832 | | |
| 6,200.0 | 6,164.0 | 6,217.8 | 6,164.0 | 15.3 | 17.2 | -90.02 | 470.7 | -380.5 | 547.9 | 517.2 | 30.70 | 17.848 | | |
| 6,250.0 | 6,209.8 | 6,267.8 | 6,209.9 | 15.3 | 17.2 | -90.02 | 470.7 | -360.6 | 547.9 | 517.3 | 30.66 | 17.870 | | |
| 6,300.0 | 6,254.3 | 6,317.8 | 6,254.4 | 15.2 | 17.2 | -90.02 | 470.7 | -337.7 | 547.9 | 517.3 | 30.63 | 17.891 | | |
| 6,350.0 | 6,297.2 | 6,367.8 | 6,297.3 | 15.2 | 17.1 | -90.02 | 470.7 | -312.0 | 547.9 | 517.3 | 30.61 | 17.901 | | |
| 6,400.0 | 6,338.2 | 6,417.8 | 6,338.4 | 15.2 | 17.1 | -90.02 | 470.7 | -283.5 | 547.9 | 517.3 | 30.63 | 17.890 | | |
| 6,450.0 | 6,377.4 | 6,467.8 | 6,377.5 | 15.3 | 17.0 | -90.02 | 470.7 | -252.4 | 547.9 | 517.2 | 30.70 | 17.845 | | |
| 6,500.0 | 6,414.4 | 6,517.8 | 6,414.5 | 15.3 | 17.0 | -90.02 | 470.7 | -218.8 | 547.9 | 517.1 | 30.86 | 17.755 | | |
| 6,550.0 | 6,449.1 | 6,567.8 | 6,449.3 | 15.5 | 17.0 | -90.02 | 470.7 | -182.8 | 547.9 | 516.8 | 31.12 | 17.609 | | |
| 6,600.0 | 6,481.5 | 6,617.8 | 6,481.6 | 15.6 | 16.9 | -90.02 | 470.7 | -144.7 | 547.9 | 516.4 | 31.49 | 17.397 | | |
| 6,650.0 | 6,511.2 | 6,667.9 | 6,511.4 | 15.9 | 16.9 | -90.02 | 470.7 | -104.5 | 547.9 | 515.9 | 32.01 | 17.115 | | |
| 6,700.0 | 6,538.3 | 6,717.9 | 6,538.4 | 16.2 | 17.0 | -90.02 | 470.7 | -62.5 | 547.9 | 515.2 | 32.69 | 16.762 | | |
| 6,750.0 | 6,562.5 | 6,767.9 | 6,562.7 | 16.6 | 17.2 | -90.02 | 470.7 | -18.7 | 547.9 | 514.4 | 33.53 | 16.341 | | |
| 6,800.0 | 6,583.9 | 6,817.9 | 6,584.0 | 17.1 | 17.5 | -90.02 | 470.7 | 26.5 | 547.9 | 513.4 | 34.54 | 15.861 | | |
| 6,850.0 | 6,602.2 | 6,867.9 | 6,602.4 | 17.7 | 18.0 | -90.02 | 470.7 | 73.0 | 547.9 | 512.2 | 35.73 | 15.336 | | |
| 6,900.0 | 6,617.5 | 6,917.9 | 6,617.6 | 18.4 | 18.7 | -90.02 | 470.7 | 120.6 | 547.9 | 510.8 | 37.07 | 14.779 | | |
| 6,950.0 | 6,629.6 | 6,967.9 | 6,629.8 | 19.2 | 19.4 | -90.02 | 470.7 | 169.1 | 547.9 | 509.3 | 38.57 | 14.205 | | |
| 7,000.0 | 6,638.5 | 7,017.9 | 6,638.7 | 20.0 | 20.2 | -90.02 | 470.7 | 218.3 | 547.9 | 507.7 | 40.20 | 13.629 | | |
| 7,050.0 | 6,644.2 | 7,067.9 | 6,644.3 | 20.8 | 21.1 | -90.02 | 470.7 | 268.0 | 547.9 | 506.0 | 41.95 | 13.061 | | |
| 7,100.0 | 6,646.6 | 7,118.0 | 6,646.8 | 21.8 | 22.1 | -90.01 | 470.7 | 317.9 | 547.9 | 504.1 | 43.79 | 12.513 | | |
| 7,116.3 | 6,646.7 | 7,134.2 | 6,646.8 | 22.1 | 22.4 | -90.01 | 470.7 | 334.2 | 547.9 | 503.5 | 44.40 | 12.340 | | |
| 7,116.5 | 6,646.7 | 7,134.5 | 6,646.8 | 22.1 | 22.4 | -90.01 | 470.7 | 334.5 | 547.9 | 503.5 | 44.41 | 12.337 | | |
| 7,200.0 | 6,646.2 | 7,218.0 | 6,646.4 | 23.7 | 24.1 | -90.02 | 470.7 | 417.9 | 547.9 | 500.2 | 47.73 | 11.479 | | |
| 7,300.0 | 6,645.6 | 7,318.0 | 6,645.8 | 25.9 | 26.2 | -90.02 | 470.7 | 517.9 | 547.9 | 495.9 | 51.97 | 10.542 | | |
| 7,400.0 | 6,645.0 | 7,418.0 | 6,645.3 | 28.1 | 28.4 | -90.03 | 470.7 | 617.9 | 547.9 | 491.5 | 56.46 | 9.705 | | |
| 7,500.0 | 6,644.4 | 7,518.0 | 6,644.8 | 30.5 | 30.8 | -90.03 | 470.7 | 717.9 | 547.9 | 486.8 | 61.13 | 8.964 | | |
| 7,600.0 | 6,643.8 | 7,618.0 | 6,644.2 | 32.9 | 33.2 | -90.04 | 470.7 | 817.9 | 547.9 | 482.0 | 65.95 | 8.309 | | |
| 7,700.0 | 6,643.2 | 7,718.0 | 6,643.7 | 35.3 | 35.7 | -90.05 | 470.7 | 917.9 | 547.9 | 477.0 | 70.88 | 7.730 | | |
| 7,800.0 | 6,642.6 | 7,818.0 | 6,643.1 | 37.9 | 38.2 | -90.05 | 470.7 | 1,017.9 | 547.9 | 472.0 | 75.92 | 7.217 | | |
| 7,900.0 | 6,642.0 | 7,918.0 | 6,642.6 | 40.4 | 40.7 | -90.06 | 470.7 | 1,117.9 | 547.9 | 466.9 | 81.03 | 6.762 | | |
| 8,000.0 | 6,641.5 | 8,018.0 | 6,642.1 | 43.0 | 43.3 | -90.06 | 470.7 | 1,217.9 | 547.9 | 461.7 | 86.20 | 6.356 | | |
| 8,100.0 | 6,640.9 | 8,118.0 | 6,641.5 | 45.6 | 45.9 | -90.07 | 470.7 | 1,317.9 | 547.9 | 456.5 | 91.43 | 5.993 | | |
| 8,200.0 | 6,640.3 | 8,218.0 | 6,641.0 | 48.3 | 48.5 | -90.07 | 470.7 | 1,417.9 | 547.9 | 451.2 | 96.70 | 5.666 | | |
| 8,300.0 | 6,639.7 | 8,318.0 | 6,640.4 | 50.9 | 51.2 | -90.08 | 470.7 | 1,517.9 | 547.9 | 445.9 | 102.00 | 5.372 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16) | | Offset Site Error: | | 0.0 ft |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--|---------|--------------------|--|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | | 0.0 ft | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre | | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | | | | |
| | | | | | | | +N/-S (ft) | +E/-W (ft) | | | | | | | | | |
| 8,400.0 | 6,639.1 | 8,418.0 | 6,639.9 | 53.6 | 53.9 | -90.08 | 470.7 | 1,617.9 | 547.9 | 440.6 | 107.34 | 5.104 | | | | | |
| 8,500.0 | 6,638.5 | 8,518.0 | 6,639.3 | 56.3 | 56.5 | -90.09 | 470.7 | 1,717.9 | 547.9 | 435.2 | 112.71 | 4.861 | | | | | |
| 8,600.0 | 6,637.9 | 8,618.0 | 6,638.8 | 59.0 | 59.2 | -90.10 | 470.7 | 1,817.9 | 547.9 | 429.8 | 118.10 | 4.639 | | | | | |
| 8,700.0 | 6,637.3 | 8,718.0 | 6,638.3 | 61.7 | 61.9 | -90.10 | 470.7 | 1,917.9 | 547.9 | 424.4 | 123.51 | 4.436 | | | | | |
| 8,800.0 | 6,636.7 | 8,818.0 | 6,637.7 | 64.4 | 64.6 | -90.11 | 470.7 | 2,017.9 | 547.9 | 419.0 | 128.94 | 4.249 | | | | | |
| 8,900.0 | 6,636.1 | 8,918.0 | 6,637.2 | 67.1 | 67.4 | -90.11 | 470.7 | 2,117.9 | 547.9 | 413.5 | 134.39 | 4.077 | | | | | |
| 9,000.0 | 6,635.5 | 9,018.0 | 6,636.6 | 69.8 | 70.1 | -90.12 | 470.7 | 2,217.9 | 547.9 | 408.1 | 139.84 | 3.918 | | | | | |
| 9,100.0 | 6,634.9 | 9,118.0 | 6,636.1 | 72.6 | 72.8 | -90.12 | 470.7 | 2,317.9 | 547.9 | 402.6 | 145.31 | 3.771 | | | | | |
| 9,200.0 | 6,634.3 | 9,218.0 | 6,635.6 | 75.3 | 75.6 | -90.13 | 470.7 | 2,417.9 | 547.9 | 397.1 | 150.80 | 3.634 | | | | | |
| 9,300.0 | 6,633.7 | 9,318.0 | 6,635.0 | 78.1 | 78.3 | -90.13 | 470.7 | 2,517.9 | 547.9 | 391.6 | 156.29 | 3.506 | | | | | |
| 9,400.0 | 6,633.1 | 9,418.0 | 6,634.5 | 80.8 | 81.1 | -90.14 | 470.7 | 2,617.9 | 547.9 | 386.1 | 161.79 | 3.387 | | | | | |
| 9,500.0 | 6,632.6 | 9,518.0 | 6,633.9 | 83.6 | 83.8 | -90.14 | 470.7 | 2,717.9 | 547.9 | 380.6 | 167.30 | 3.275 | | | | | |
| 9,600.0 | 6,632.0 | 9,618.0 | 6,633.4 | 86.3 | 86.6 | -90.15 | 470.7 | 2,817.9 | 547.9 | 375.1 | 172.81 | 3.171 | | | | | |
| 9,700.0 | 6,631.4 | 9,718.0 | 6,632.9 | 89.1 | 89.3 | -90.16 | 470.7 | 2,917.9 | 547.9 | 369.6 | 178.33 | 3.072 | | | | | |
| 9,800.0 | 6,630.8 | 9,818.0 | 6,632.3 | 91.9 | 92.1 | -90.16 | 470.7 | 3,017.9 | 547.9 | 364.1 | 183.86 | 2.980 | | | | | |
| 9,900.0 | 6,630.2 | 9,918.0 | 6,631.8 | 94.6 | 94.8 | -90.17 | 470.7 | 3,117.9 | 547.9 | 358.5 | 189.39 | 2.893 | | | | | |
| 10,000.0 | 6,629.6 | 10,018.0 | 6,631.2 | 97.4 | 97.6 | -90.17 | 470.7 | 3,217.9 | 547.9 | 353.0 | 194.93 | 2.811 | | | | | |
| 10,100.0 | 6,629.0 | 10,118.0 | 6,630.7 | 100.2 | 100.4 | -90.18 | 470.7 | 3,317.9 | 547.9 | 347.4 | 200.47 | 2.733 | | | | | |
| 10,200.0 | 6,628.4 | 10,218.0 | 6,630.1 | 102.9 | 103.2 | -90.18 | 470.7 | 3,417.9 | 547.9 | 341.9 | 206.02 | 2.660 | | | | | |
| 10,300.0 | 6,627.8 | 10,318.0 | 6,629.6 | 105.7 | 105.9 | -90.19 | 470.7 | 3,517.9 | 547.9 | 336.4 | 211.57 | 2.590 | | | | | |
| 10,400.0 | 6,627.2 | 10,418.0 | 6,629.1 | 108.5 | 108.7 | -90.19 | 470.7 | 3,617.9 | 547.9 | 330.8 | 217.13 | 2.524 | | | | | |
| 10,500.0 | 6,626.6 | 10,518.0 | 6,628.5 | 111.3 | 111.5 | -90.20 | 470.7 | 3,717.9 | 547.9 | 325.2 | 222.68 | 2.461 | | | | | |
| 10,600.0 | 6,626.0 | 10,618.0 | 6,628.0 | 114.1 | 114.3 | -90.20 | 470.7 | 3,817.9 | 547.9 | 319.7 | 228.24 | 2.401 | | | | | |
| 10,700.0 | 6,625.4 | 10,718.0 | 6,627.4 | 116.8 | 117.0 | -90.21 | 470.7 | 3,917.9 | 547.9 | 314.1 | 233.81 | 2.343 | | | | | |
| 10,800.0 | 6,624.8 | 10,818.0 | 6,626.9 | 119.6 | 119.8 | -90.22 | 470.7 | 4,017.9 | 547.9 | 308.5 | 239.37 | 2.289 | | | | | |
| 10,900.0 | 6,624.2 | 10,918.0 | 6,626.4 | 122.4 | 122.6 | -90.22 | 470.7 | 4,117.9 | 547.9 | 303.0 | 244.94 | 2.237 | | | | | |
| 11,000.0 | 6,623.7 | 11,018.0 | 6,625.8 | 125.2 | 125.4 | -90.23 | 470.7 | 4,217.9 | 547.9 | 297.4 | 250.51 | 2.187 | | | | | |
| 11,100.0 | 6,623.1 | 11,118.0 | 6,625.3 | 128.0 | 128.2 | -90.23 | 470.7 | 4,317.9 | 547.9 | 291.8 | 256.09 | 2.140 | | | | | |
| 11,200.0 | 6,622.5 | 11,218.0 | 6,624.7 | 130.8 | 131.0 | -90.24 | 470.7 | 4,417.9 | 547.9 | 286.3 | 261.66 | 2.094 | | | | | |
| 11,300.0 | 6,621.9 | 11,318.0 | 6,624.2 | 133.6 | 133.7 | -90.24 | 470.7 | 4,517.9 | 547.9 | 280.7 | 267.24 | 2.050 | | | | | |
| 11,400.0 | 6,621.3 | 11,418.0 | 6,623.7 | 136.3 | 136.5 | -90.25 | 470.7 | 4,617.9 | 547.9 | 275.1 | 272.82 | 2.008 | | | | | |
| 11,500.0 | 6,620.7 | 11,518.0 | 6,623.1 | 139.1 | 139.3 | -90.25 | 470.7 | 4,717.9 | 547.9 | 269.5 | 278.40 | 1.968 | | | | | |
| 11,600.0 | 6,620.1 | 11,618.0 | 6,622.6 | 141.9 | 142.1 | -90.26 | 470.7 | 4,817.9 | 547.9 | 263.9 | 283.98 | 1.929 | | | | | |
| 11,700.0 | 6,619.5 | 11,718.0 | 6,622.0 | 144.7 | 144.9 | -90.26 | 470.7 | 4,917.9 | 547.9 | 258.4 | 289.56 | 1.892 | | | | | |
| 11,800.0 | 6,618.9 | 11,818.0 | 6,621.5 | 147.5 | 147.7 | -90.27 | 470.7 | 5,017.9 | 547.9 | 252.8 | 295.15 | 1.856 | | | | | |
| 11,900.0 | 6,618.3 | 11,918.0 | 6,620.9 | 150.3 | 150.5 | -90.28 | 470.7 | 5,117.9 | 547.9 | 247.2 | 300.73 | 1.822 | | | | | |
| 12,000.0 | 6,617.7 | 12,018.0 | 6,620.4 | 153.1 | 153.3 | -90.28 | 470.7 | 5,217.9 | 547.9 | 241.6 | 306.32 | 1.789 | | | | | |
| 12,100.0 | 6,617.1 | 12,118.0 | 6,619.9 | 155.9 | 156.1 | -90.29 | 470.7 | 5,317.9 | 547.9 | 236.0 | 311.91 | 1.757 | | | | | |
| 12,200.0 | 6,616.5 | 12,218.0 | 6,619.3 | 158.7 | 158.9 | -90.29 | 470.7 | 5,417.9 | 547.9 | 230.4 | 317.50 | 1.726 | | | | | |
| 12,300.0 | 6,615.9 | 12,318.0 | 6,618.8 | 161.5 | 161.7 | -90.30 | 470.7 | 5,517.9 | 547.9 | 224.8 | 323.09 | 1.696 | | | | | |
| 12,400.0 | 6,615.3 | 12,418.0 | 6,618.2 | 164.3 | 164.5 | -90.30 | 470.7 | 5,617.9 | 547.9 | 219.2 | 328.68 | 1.667 | | | | | |
| 12,500.0 | 6,614.8 | 12,518.0 | 6,617.7 | 167.1 | 167.3 | -90.31 | 470.7 | 5,717.9 | 547.9 | 213.7 | 334.27 | 1.639 | | | | | |
| 12,600.0 | 6,614.2 | 12,618.0 | 6,617.2 | 169.9 | 170.0 | -90.31 | 470.7 | 5,817.9 | 547.9 | 208.1 | 339.86 | 1.612 | | | | | |
| 12,700.0 | 6,613.6 | 12,718.0 | 6,616.6 | 172.7 | 172.8 | -90.32 | 470.7 | 5,917.9 | 547.9 | 202.5 | 345.46 | 1.586 | | | | | |
| 12,800.0 | 6,613.0 | 12,818.0 | 6,616.1 | 175.5 | 175.6 | -90.33 | 470.7 | 6,017.9 | 547.9 | 196.9 | 351.05 | 1.561 | | | | | |
| 12,900.0 | 6,612.4 | 12,918.0 | 6,615.5 | 178.3 | 178.4 | -90.33 | 470.7 | 6,117.9 | 547.9 | 191.3 | 356.65 | 1.536 | | | | | |
| 13,000.0 | 6,611.8 | 13,018.0 | 6,615.0 | 181.1 | 181.2 | -90.34 | 470.7 | 6,217.8 | 547.9 | 185.7 | 362.24 | 1.513 | | | | | |
| 13,100.0 | 6,611.2 | 13,118.0 | 6,614.5 | 183.9 | 184.0 | -90.34 | 470.7 | 6,317.8 | 547.9 | 180.1 | 367.84 | 1.490 Level 3 | | | | | |
| 13,200.0 | 6,610.6 | 13,218.0 | 6,613.9 | 186.7 | 186.8 | -90.35 | 470.7 | 6,417.8 | 547.9 | 174.5 | 373.44 | 1.467 Level 3 | | | | | |
| 13,300.0 | 6,610.0 | 13,318.0 | 6,613.4 | 189.5 | 189.6 | -90.35 | 470.7 | 6,517.8 | 547.9 | 168.9 | 379.04 | 1.446 Level 3 | | | | | |
| 13,400.0 | 6,609.4 | 13,418.0 | 6,612.8 | 192.3 | 192.4 | -90.36 | 470.7 | 6,617.8 | 547.9 | 163.3 | 384.64 | 1.425 Level 3 | | | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16) | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 0-MWD | | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 13,500.0 | 6,608.8 | 13,518.0 | 6,612.3 | 195.1 | 195.2 | -90.36 | 470.7 | 6,717.8 | 547.9 | 157.7 | 390.24 | 1.404 | Level 3 | |
| 13,600.0 | 6,608.2 | 13,618.0 | 6,611.8 | 197.9 | 198.0 | -90.37 | 470.7 | 6,817.8 | 547.9 | 152.1 | 395.84 | 1.384 | Level 3 | |
| 13,700.0 | 6,607.6 | 13,718.0 | 6,611.2 | 200.7 | 200.8 | -90.37 | 470.7 | 6,917.8 | 547.9 | 146.5 | 401.44 | 1.365 | Level 3 | |
| 13,800.0 | 6,607.0 | 13,818.0 | 6,610.7 | 203.5 | 203.6 | -90.38 | 470.7 | 7,017.8 | 547.9 | 140.9 | 407.04 | 1.346 | Level 3 | |
| 13,900.0 | 6,606.4 | 13,918.0 | 6,610.1 | 206.3 | 206.4 | -90.39 | 470.7 | 7,117.8 | 547.9 | 135.3 | 412.64 | 1.328 | Level 3 | |
| 14,000.0 | 6,605.9 | 14,018.0 | 6,609.6 | 209.1 | 209.2 | -90.39 | 470.7 | 7,217.8 | 547.9 | 129.7 | 418.24 | 1.310 | Level 3 | |
| 14,100.0 | 6,605.3 | 14,118.0 | 6,609.0 | 211.9 | 212.0 | -90.40 | 470.7 | 7,317.8 | 547.9 | 124.1 | 423.84 | 1.293 | Level 3 | |
| 14,200.0 | 6,604.7 | 14,218.0 | 6,608.5 | 214.7 | 214.8 | -90.40 | 470.7 | 7,417.8 | 547.9 | 118.5 | 429.45 | 1.276 | Level 3 | |
| 14,300.0 | 6,604.1 | 14,318.0 | 6,608.0 | 217.5 | 217.6 | -90.41 | 470.7 | 7,517.8 | 547.9 | 112.9 | 435.05 | 1.259 | Level 3 | |
| 14,400.0 | 6,603.5 | 14,418.0 | 6,607.4 | 220.3 | 220.4 | -90.41 | 470.7 | 7,617.8 | 547.9 | 107.3 | 440.65 | 1.243 | Level 2 | |
| 14,500.0 | 6,602.9 | 14,518.0 | 6,606.9 | 223.1 | 223.2 | -90.42 | 470.7 | 7,717.8 | 547.9 | 101.7 | 446.26 | 1.228 | Level 2 | |
| 14,600.0 | 6,602.3 | 14,618.0 | 6,606.3 | 225.9 | 226.0 | -90.42 | 470.7 | 7,817.8 | 547.9 | 96.1 | 451.86 | 1.213 | Level 2 | |
| 14,700.0 | 6,601.7 | 14,718.0 | 6,605.8 | 228.7 | 228.8 | -90.43 | 470.7 | 7,917.8 | 547.9 | 90.5 | 457.47 | 1.198 | Level 2 | |
| 14,800.0 | 6,601.1 | 14,818.0 | 6,605.3 | 231.5 | 231.6 | -90.43 | 470.7 | 8,017.8 | 547.9 | 84.9 | 463.07 | 1.183 | Level 2 | |
| 14,900.0 | 6,600.5 | 14,918.0 | 6,604.7 | 234.3 | 234.4 | -90.44 | 470.7 | 8,117.8 | 547.9 | 79.3 | 468.68 | 1.169 | Level 2 | |
| 15,000.0 | 6,599.9 | 15,018.0 | 6,604.2 | 237.1 | 237.2 | -90.45 | 470.7 | 8,217.8 | 547.9 | 73.7 | 474.28 | 1.155 | Level 2 | |
| 15,100.0 | 6,599.3 | 15,118.0 | 6,603.6 | 239.9 | 240.1 | -90.45 | 470.7 | 8,317.8 | 547.9 | 68.0 | 479.89 | 1.142 | Level 2 | |
| 15,200.0 | 6,598.7 | 15,218.0 | 6,603.1 | 242.7 | 242.9 | -90.46 | 470.7 | 8,417.8 | 547.9 | 62.4 | 485.50 | 1.129 | Level 2 | |
| 15,300.0 | 6,598.1 | 15,318.0 | 6,602.6 | 245.5 | 245.7 | -90.46 | 470.7 | 8,517.8 | 547.9 | 56.8 | 491.10 | 1.116 | Level 2 | |
| 15,400.0 | 6,597.5 | 15,418.0 | 6,602.0 | 248.3 | 248.5 | -90.47 | 470.7 | 8,617.8 | 547.9 | 51.2 | 496.71 | 1.103 | Level 2 | |
| 15,500.0 | 6,596.9 | 15,518.0 | 6,601.5 | 251.1 | 251.3 | -90.47 | 470.7 | 8,717.8 | 547.9 | 45.6 | 502.32 | 1.091 | Level 2 | |
| 15,600.0 | 6,596.4 | 15,618.0 | 6,600.9 | 253.9 | 254.1 | -90.48 | 470.7 | 8,817.8 | 547.9 | 40.0 | 507.92 | 1.079 | Level 2 | |
| 15,700.0 | 6,595.8 | 15,718.0 | 6,600.4 | 256.7 | 256.9 | -90.48 | 470.7 | 8,917.8 | 547.9 | 34.4 | 513.53 | 1.067 | Level 2 | |
| 15,800.0 | 6,595.2 | 15,818.0 | 6,599.8 | 259.5 | 259.7 | -90.49 | 470.7 | 9,017.8 | 547.9 | 28.8 | 519.14 | 1.055 | Level 2 | |
| 15,900.0 | 6,594.6 | 15,918.0 | 6,599.3 | 262.3 | 262.5 | -90.49 | 470.7 | 9,117.8 | 547.9 | 23.2 | 524.75 | 1.044 | Level 2 | |
| 16,000.0 | 6,594.0 | 16,018.0 | 6,598.8 | 265.1 | 265.3 | -90.50 | 470.7 | 9,217.8 | 547.9 | 17.6 | 530.36 | 1.033 | Level 2 | |
| 16,100.0 | 6,593.4 | 16,118.0 | 6,598.2 | 267.9 | 268.1 | -90.51 | 470.7 | 9,317.8 | 547.9 | 12.0 | 535.96 | 1.022 | Level 2 | |
| 16,200.0 | 6,592.8 | 16,218.0 | 6,597.7 | 270.7 | 270.9 | -90.51 | 470.7 | 9,417.8 | 547.9 | 6.4 | 541.57 | 1.012 | Level 2 | |
| 16,300.0 | 6,592.2 | 16,318.0 | 6,597.1 | 273.5 | 273.7 | -90.52 | 470.7 | 9,517.8 | 547.9 | 0.8 | 547.18 | 1.001 | Level 2 | |
| 16,314.0 | 6,592.1 | 16,331.9 | 6,597.1 | 273.9 | 274.1 | -90.52 | 470.7 | 9,531.8 | 547.9 | 0.0 | 547.97 | 1.000 | Level 1 | |
| 16,334.1 | 6,592.0 | 16,344.5 | 6,597.0 | 274.5 | 274.4 | -90.52 | 470.7 | 9,544.4 | 548.0 | -0.9 | 548.88 | 0.998 | Level 1, ES, SF | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1) | | Offset Site Error: | | 0.0 ft |
|-----------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|----------|---|---------|--------------------|--|--------|
| Survey Program: | | | | 0-MWD | | | | | | | | | Offset Well Error: | | 0.0 ft | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | | | | |
| Depth (ft) | Depth (ft) | Depth (ft) | Depth (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 129.00 | -9.5 | 11.7 | 15.1 | 15.1 | 0.00 | N/A | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 129.00 | -9.5 | 11.7 | 15.1 | 14.8 | 0.22 | 66.996 | | | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 129.00 | -9.5 | 11.7 | 15.1 | 14.4 | 0.67 | 22.332 | | | | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | 129.00 | -9.5 | 11.7 | 15.1 | 13.9 | 1.12 | 13.399 | | | | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 129.00 | -9.5 | 11.7 | 15.1 | 13.5 | 1.57 | 9.571 | | | | | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | 129.00 | -9.5 | 11.7 | 15.1 | 13.0 | 2.02 | 7.444 | | | | | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.2 | 1.2 | 129.00 | -9.5 | 11.7 | 15.1 | 12.6 | 2.47 | 6.091 | | | | | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.5 | 1.5 | 129.00 | -9.5 | 11.7 | 15.1 | 12.1 | 2.92 | 5.154 | | | | | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.7 | 1.7 | 129.00 | -9.5 | 11.7 | 15.1 | 11.7 | 3.37 | 4.466 | | | | | |
| 900.0 | 900.0 | 900.0 | 900.0 | 1.9 | 1.9 | 129.00 | -9.5 | 11.7 | 15.1 | 11.2 | 3.82 | 3.941 | | | | | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 2.1 | 2.1 | 129.00 | -9.5 | 11.7 | 15.1 | 10.8 | 4.27 | 3.526 | | | | | |
| 1,100.0 | 1,100.0 | 1,100.0 | 1,100.0 | 2.4 | 2.4 | 129.00 | -9.5 | 11.7 | 15.1 | 10.3 | 4.72 | 3.190 | | | | | |
| 1,200.0 | 1,200.0 | 1,200.0 | 1,200.0 | 2.6 | 2.6 | 129.00 | -9.5 | 11.7 | 15.1 | 9.9 | 5.17 | 2.913 | | | | | |
| 1,300.0 | 1,300.0 | 1,300.0 | 1,300.0 | 2.8 | 2.8 | 129.00 | -9.5 | 11.7 | 15.1 | 9.4 | 5.62 | 2.680 | | | | | |
| 1,400.0 | 1,400.0 | 1,400.0 | 1,400.0 | 3.0 | 3.0 | 129.00 | -9.5 | 11.7 | 15.1 | 9.0 | 6.07 | 2.481 | | | | | |
| 1,500.0 | 1,500.0 | 1,500.1 | 1,500.1 | 3.3 | 3.2 | 133.88 | -10.2 | 10.6 | 14.7 | 8.2 | 6.50 | 2.267 | | | | | |
| 1,583.3 | 1,583.3 | 1,583.4 | 1,583.3 | 3.4 | 3.4 | 145.99 | -11.9 | 8.1 | 14.4 | 7.6 | 6.84 | 2.106 CC | | | | | |
| 1,600.0 | 1,600.0 | 1,600.0 | 1,600.0 | 3.5 | 3.4 | 149.31 | -12.4 | 7.4 | 14.4 | 7.5 | 6.91 | 2.089 | | | | | |
| 1,700.0 | 1,700.0 | 1,699.7 | 1,699.4 | 3.7 | 3.6 | 173.04 | -16.0 | 2.0 | 16.2 | 8.9 | 7.32 | 2.210 | | | | | |
| 1,800.0 | 1,800.0 | 1,799.0 | 1,798.3 | 3.9 | 3.8 | -165.26 | -21.1 | -5.6 | 21.9 | 14.2 | 7.75 | 2.827 | | | | | |
| 1,900.0 | 1,900.0 | 1,897.7 | 1,896.3 | 4.2 | 4.0 | -151.24 | -27.6 | -15.1 | 31.7 | 23.5 | 8.20 | 3.865 | | | | | |
| 2,000.0 | 2,000.0 | 1,995.8 | 1,993.4 | 4.4 | 4.3 | -142.94 | -35.4 | -26.7 | 44.9 | 36.2 | 8.67 | 5.175 | | | | | |
| 2,100.0 | 2,100.0 | 2,094.6 | 2,090.9 | 4.6 | 4.6 | -38.41 | -44.1 | -39.6 | 59.3 | 50.3 | 9.02 | 6.579 | | | | | |
| 2,200.0 | 2,200.0 | 2,193.7 | 2,188.8 | 4.8 | 4.8 | -36.49 | -52.9 | -52.6 | 72.6 | 63.2 | 9.42 | 7.708 | | | | | |
| 2,300.0 | 2,299.9 | 2,293.0 | 2,286.8 | 5.0 | 5.1 | -35.84 | -61.6 | -65.6 | 84.5 | 74.7 | 9.83 | 8.600 | | | | | |
| 2,400.0 | 2,399.7 | 2,392.4 | 2,385.0 | 5.2 | 5.4 | -35.95 | -70.4 | -78.6 | 95.0 | 84.8 | 10.25 | 9.275 | | | | | |
| 2,500.0 | 2,499.4 | 2,492.0 | 2,483.4 | 5.4 | 5.8 | -36.61 | -79.2 | -91.6 | 104.2 | 93.5 | 10.67 | 9.759 | | | | | |
| 2,600.0 | 2,598.9 | 2,591.7 | 2,581.8 | 5.6 | 6.1 | -37.70 | -87.9 | -104.6 | 111.9 | 100.8 | 11.11 | 10.071 | | | | | |
| 2,700.0 | 2,698.3 | 2,691.4 | 2,680.3 | 5.9 | 6.4 | -39.18 | -96.7 | -117.6 | 118.3 | 106.8 | 11.56 | 10.234 | | | | | |
| 2,800.0 | 2,797.4 | 2,791.2 | 2,778.8 | 6.1 | 6.7 | -41.04 | -105.5 | -130.7 | 123.5 | 111.5 | 12.03 | 10.266 | | | | | |
| 2,811.9 | 2,809.2 | 2,803.0 | 2,790.5 | 6.1 | 6.8 | -41.28 | -106.6 | -132.2 | 124.1 | 112.0 | 12.09 | 10.261 | | | | | |
| 2,900.0 | 2,896.4 | 2,891.0 | 2,877.4 | 6.4 | 7.1 | -43.09 | -114.3 | -143.7 | 128.1 | 115.5 | 12.53 | 10.218 | | | | | |
| 3,000.0 | 2,995.4 | 2,990.8 | 2,975.9 | 6.6 | 7.4 | -45.01 | -123.1 | -156.8 | 132.8 | 119.7 | 13.05 | 10.173 | | | | | |
| 3,100.0 | 3,094.4 | 3,090.6 | 3,074.5 | 6.9 | 7.8 | -46.79 | -131.9 | -169.8 | 137.6 | 124.0 | 13.58 | 10.130 | | | | | |
| 3,200.0 | 3,193.4 | 3,190.4 | 3,173.0 | 7.2 | 8.1 | -48.46 | -140.7 | -182.9 | 142.5 | 128.4 | 14.12 | 10.090 | | | | | |
| 3,300.0 | 3,292.4 | 3,290.2 | 3,271.6 | 7.5 | 8.5 | -50.01 | -149.5 | -195.9 | 147.6 | 132.9 | 14.68 | 10.051 | | | | | |
| 3,400.0 | 3,391.4 | 3,389.9 | 3,370.1 | 7.8 | 8.8 | -51.46 | -158.3 | -208.9 | 152.7 | 137.5 | 15.25 | 10.014 | | | | | |
| 3,500.0 | 3,490.4 | 3,489.7 | 3,468.6 | 8.1 | 9.2 | -52.81 | -167.1 | -222.0 | 158.0 | 142.2 | 15.83 | 9.979 | | | | | |
| 3,600.0 | 3,589.4 | 3,589.5 | 3,567.2 | 8.4 | 9.5 | -54.08 | -175.9 | -235.0 | 163.3 | 146.9 | 16.42 | 9.945 | | | | | |
| 3,700.0 | 3,688.4 | 3,689.3 | 3,665.7 | 8.7 | 9.9 | -55.26 | -184.7 | -248.1 | 168.7 | 151.7 | 17.02 | 9.912 | | | | | |
| 3,800.0 | 3,787.4 | 3,789.1 | 3,764.3 | 9.0 | 10.3 | -56.37 | -193.5 | -261.1 | 174.2 | 156.6 | 17.63 | 9.880 | | | | | |
| 3,900.0 | 3,886.4 | 3,888.9 | 3,862.8 | 9.3 | 10.6 | -57.41 | -202.3 | -274.2 | 179.7 | 161.5 | 18.25 | 9.850 | | | | | |
| 4,000.0 | 3,985.4 | 3,988.7 | 3,961.4 | 9.6 | 11.0 | -58.39 | -211.1 | -287.2 | 185.3 | 166.4 | 18.87 | 9.821 | | | | | |
| 4,100.0 | 4,084.4 | 4,088.5 | 4,059.9 | 9.9 | 11.4 | -59.32 | -219.9 | -300.2 | 191.0 | 171.5 | 19.50 | 9.793 | | | | | |
| 4,200.0 | 4,183.4 | 4,188.3 | 4,158.5 | 10.3 | 11.7 | -60.19 | -228.7 | -313.3 | 196.6 | 176.5 | 20.13 | 9.766 | | | | | |
| 4,300.0 | 4,282.4 | 4,288.1 | 4,257.0 | 10.6 | 12.1 | -61.01 | -237.5 | -326.3 | 202.4 | 181.6 | 20.77 | 9.741 | | | | | |
| 4,400.0 | 4,381.4 | 4,387.9 | 4,355.6 | 10.9 | 12.5 | -61.78 | -246.3 | -339.4 | 208.1 | 186.7 | 21.42 | 9.717 | | | | | |
| 4,500.0 | 4,480.4 | 4,487.7 | 4,454.1 | 11.2 | 12.8 | -62.51 | -255.1 | -352.4 | 213.9 | 191.9 | 22.07 | 9.693 | | | | | |
| 4,600.0 | 4,579.4 | 4,587.5 | 4,552.7 | 11.6 | 13.2 | -63.21 | -263.9 | -365.5 | 219.8 | 197.1 | 22.72 | 9.671 | | | | | |
| 4,700.0 | 4,678.4 | 4,687.3 | 4,651.2 | 11.9 | 13.6 | -63.87 | -272.7 | -378.5 | 225.6 | 202.3 | 23.38 | 9.650 | | | | | |
| 4,800.0 | 4,777.4 | 4,787.1 | 4,749.8 | 12.2 | 13.9 | -64.49 | -281.5 | -391.5 | 231.5 | 207.5 | 24.04 | 9.630 | | | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1) | | Offset Site Error: | | 0.0 ft |
|-----------------------|------------|------------|------------|-----------------|--------|--------------|------------------------|------------|--------------|---------------|-----------------|------------|---|--------------------|--------------------|--------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | | Offset Well Error: | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | | | | |
| Measured Depth | Vertical | Measured | Vertical | Reference | Offset | Highside | Offset Wellbore Centre | | Between | Between | Minimum | Separation | Warning | | | | |
| Depth (ft) | Depth (ft) | Depth (ft) | Depth (ft) | (ft) | (ft) | Toolface (°) | +N/-S (ft) | +E/-W (ft) | Centres (ft) | Ellipses (ft) | Separation (ft) | Factor | | | | | |
| 4,900.0 | 4,876.4 | 4,886.9 | 4,848.3 | 12.6 | 14.3 | -65.09 | -290.3 | -404.6 | 237.5 | 212.8 | 24.71 | 9.611 | | | | | |
| 5,000.0 | 4,975.4 | 4,993.3 | 4,953.7 | 12.9 | 14.6 | -66.00 | -298.6 | -416.9 | 242.0 | 216.7 | 25.36 | 9.545 | | | | | |
| 5,100.0 | 5,074.4 | 5,099.7 | 5,059.6 | 13.2 | 14.8 | -67.52 | -304.7 | -425.9 | 244.0 | 217.9 | 26.04 | 9.370 | | | | | |
| 5,200.0 | 5,173.4 | 5,205.8 | 5,165.4 | 13.6 | 15.1 | -69.65 | -308.6 | -431.7 | 243.5 | 216.7 | 26.75 | 9.102 | | | | | |
| 5,300.0 | 5,272.3 | 5,311.2 | 5,270.7 | 13.9 | 15.2 | -72.47 | -310.3 | -434.2 | 240.8 | 213.3 | 27.49 | 8.760 | | | | | |
| 5,323.3 | 5,295.4 | 5,335.6 | 5,295.2 | 14.0 | 15.3 | -73.23 | -310.4 | -434.3 | 239.9 | 212.2 | 27.67 | 8.671 | | | | | |
| 5,400.0 | 5,371.5 | 5,411.9 | 5,371.5 | 14.2 | 15.4 | -75.44 | -310.4 | -434.3 | 237.2 | 209.1 | 28.18 | 8.419 | | | | | |
| 5,500.0 | 5,471.0 | 5,511.5 | 5,471.0 | 14.4 | 15.5 | -77.68 | -310.4 | -434.3 | 235.0 | 206.2 | 28.73 | 8.178 | | | | | |
| 5,600.0 | 5,570.8 | 5,611.3 | 5,570.8 | 14.6 | 15.7 | -79.15 | -310.4 | -434.3 | 233.7 | 204.5 | 29.20 | 8.005 | | | | | |
| 5,700.0 | 5,670.8 | 5,711.2 | 5,670.8 | 14.8 | 15.8 | -79.81 | -310.4 | -434.3 | 233.2 | 203.6 | 29.58 | 7.884 | | | | | |
| 5,729.2 | 5,700.0 | 5,740.5 | 5,700.0 | 14.9 | 15.9 | -179.93 | -310.4 | -434.3 | 233.2 | 206.9 | 26.31 | 8.863 | | | | | |
| 5,800.0 | 5,770.8 | 5,811.2 | 5,770.8 | 15.0 | 16.0 | -179.93 | -310.4 | -434.3 | 233.2 | 206.6 | 26.57 | 8.775 | | | | | |
| 5,853.3 | 5,824.1 | 5,864.6 | 5,824.1 | 15.1 | 16.1 | 180.00 | -310.4 | -434.0 | 233.2 | 206.4 | 26.77 | 8.710 | | | | | |
| 5,900.0 | 5,870.8 | 5,911.1 | 5,870.5 | 15.1 | 16.1 | 179.33 | -310.4 | -431.3 | 233.2 | 206.3 | 26.89 | 8.671 | | | | | |
| 5,912.0 | 5,882.8 | 5,923.0 | 5,882.4 | 15.2 | 16.1 | 179.05 | -310.4 | -430.1 | 233.2 | 206.3 | 26.92 | 8.664 | | | | | |
| 5,950.0 | 5,920.7 | 5,960.5 | 5,919.5 | 15.2 | 16.2 | 88.09 | -310.4 | -425.3 | 233.3 | 202.8 | 30.46 | 7.659 | | | | | |
| 6,000.0 | 5,970.6 | 6,009.5 | 5,967.8 | 15.3 | 16.2 | 86.83 | -310.4 | -416.3 | 233.5 | 202.9 | 30.59 | 7.634 | | | | | |
| 6,050.0 | 6,020.0 | 6,058.3 | 6,015.0 | 15.3 | 16.2 | 85.60 | -310.4 | -404.2 | 233.9 | 203.2 | 30.68 | 7.624 | | | | | |
| 6,100.0 | 6,068.9 | 6,106.7 | 6,061.1 | 15.3 | 16.1 | 84.39 | -310.4 | -389.3 | 234.3 | 203.6 | 30.71 | 7.629 | | | | | |
| 6,150.0 | 6,116.9 | 6,154.9 | 6,105.9 | 15.3 | 16.1 | 83.21 | -310.4 | -371.6 | 234.8 | 204.1 | 30.71 | 7.646 | | | | | |
| 6,200.0 | 6,164.0 | 6,202.8 | 6,149.2 | 15.3 | 16.1 | 82.06 | -310.4 | -351.3 | 235.5 | 204.8 | 30.68 | 7.673 | | | | | |
| 6,250.0 | 6,209.8 | 6,250.0 | 6,190.6 | 15.3 | 16.0 | 80.97 | -310.4 | -328.5 | 236.1 | 205.5 | 30.63 | 7.709 | | | | | |
| 6,300.0 | 6,254.3 | 6,297.7 | 6,230.9 | 15.2 | 16.0 | 79.90 | -310.4 | -303.0 | 236.9 | 206.3 | 30.57 | 7.748 | | | | | |
| 6,350.0 | 6,297.2 | 6,344.8 | 6,269.1 | 15.2 | 15.9 | 78.89 | -310.4 | -275.5 | 237.7 | 207.1 | 30.51 | 7.788 | | | | | |
| 6,400.0 | 6,338.2 | 6,391.7 | 6,305.4 | 15.2 | 15.9 | 77.93 | -310.4 | -245.7 | 238.5 | 208.0 | 30.48 | 7.824 | | | | | |
| 6,450.0 | 6,377.4 | 6,438.4 | 6,339.5 | 15.3 | 15.9 | 77.03 | -310.4 | -214.0 | 239.3 | 208.8 | 30.49 | 7.850 | | | | | |
| 6,500.0 | 6,414.4 | 6,484.9 | 6,371.6 | 15.3 | 15.9 | 76.19 | -310.4 | -180.3 | 240.2 | 209.6 | 30.56 | 7.860 | | | | | |
| 6,550.0 | 6,449.1 | 6,531.2 | 6,401.5 | 15.5 | 16.0 | 75.40 | -310.4 | -144.9 | 241.0 | 210.3 | 30.70 | 7.848 | | | | | |
| 6,600.0 | 6,481.5 | 6,577.3 | 6,429.0 | 15.6 | 16.1 | 74.68 | -310.4 | -107.9 | 241.8 | 210.8 | 30.96 | 7.811 | | | | | |
| 6,650.0 | 6,511.2 | 6,623.3 | 6,454.2 | 15.9 | 16.2 | 74.02 | -310.4 | -69.5 | 242.6 | 211.2 | 31.33 | 7.743 | | | | | |
| 6,700.0 | 6,538.3 | 6,669.1 | 6,476.9 | 16.2 | 16.5 | 73.42 | -310.4 | -29.7 | 243.3 | 211.5 | 31.84 | 7.642 | | | | | |
| 6,750.0 | 6,562.5 | 6,714.9 | 6,497.2 | 16.6 | 16.8 | 72.89 | -310.4 | 11.3 | 244.0 | 211.5 | 32.50 | 7.508 | | | | | |
| 6,800.0 | 6,583.9 | 6,760.5 | 6,515.0 | 17.1 | 17.3 | 72.43 | -310.4 | 53.3 | 244.6 | 211.3 | 33.31 | 7.342 | | | | | |
| 6,850.0 | 6,602.2 | 6,806.0 | 6,530.2 | 17.7 | 17.8 | 72.03 | -310.4 | 96.2 | 245.1 | 210.9 | 34.29 | 7.149 | | | | | |
| 6,900.0 | 6,617.5 | 6,850.0 | 6,542.4 | 18.4 | 18.4 | 71.71 | -310.4 | 138.4 | 245.6 | 210.2 | 35.40 | 6.937 | | | | | |
| 6,950.0 | 6,629.6 | 6,896.8 | 6,552.7 | 19.2 | 19.1 | 71.44 | -310.4 | 184.1 | 246.0 | 209.3 | 36.71 | 6.700 | | | | | |
| 7,000.0 | 6,638.5 | 6,942.1 | 6,560.0 | 20.0 | 19.9 | 71.25 | -310.4 | 228.8 | 246.2 | 208.1 | 38.14 | 6.456 | | | | | |
| 7,050.0 | 6,644.2 | 6,987.4 | 6,564.7 | 20.8 | 20.7 | 71.13 | -310.4 | 273.8 | 246.4 | 206.7 | 39.69 | 6.208 | | | | | |
| 7,100.0 | 6,646.6 | 7,032.7 | 6,566.7 | 21.8 | 21.5 | 71.07 | -310.4 | 319.0 | 246.5 | 205.2 | 41.35 | 5.961 | | | | | |
| 7,116.5 | 6,646.7 | 7,047.8 | 6,566.7 | 22.1 | 21.8 | 71.07 | -310.4 | 334.2 | 246.5 | 204.6 | 41.92 | 5.880 | | | | | |
| 7,144.5 | 6,646.5 | 7,075.6 | 6,566.6 | 22.6 | 22.3 | 71.07 | -310.4 | 362.0 | 246.5 | 203.5 | 42.97 | 5.737 | | | | | |
| 7,200.0 | 6,646.2 | 7,131.1 | 6,566.2 | 23.7 | 23.5 | 71.07 | -310.4 | 417.5 | 246.5 | 201.4 | 45.09 | 5.467 | | | | | |
| 7,300.0 | 6,645.6 | 7,231.1 | 6,565.6 | 25.9 | 25.6 | 71.07 | -310.4 | 517.5 | 246.5 | 197.4 | 49.13 | 5.017 | | | | | |
| 7,400.0 | 6,645.0 | 7,331.1 | 6,565.0 | 28.1 | 27.8 | 71.07 | -310.4 | 617.5 | 246.5 | 193.1 | 53.40 | 4.616 | | | | | |
| 7,500.0 | 6,644.4 | 7,431.1 | 6,564.4 | 30.5 | 30.2 | 71.07 | -310.4 | 717.5 | 246.5 | 188.7 | 57.84 | 4.262 | | | | | |
| 7,600.0 | 6,643.8 | 7,531.1 | 6,563.9 | 32.9 | 32.6 | 71.07 | -310.4 | 817.5 | 246.5 | 184.1 | 62.43 | 3.949 | | | | | |
| 7,700.0 | 6,643.2 | 7,631.1 | 6,563.3 | 35.3 | 35.1 | 71.07 | -310.4 | 917.5 | 246.5 | 179.4 | 67.13 | 3.672 | | | | | |
| 7,800.0 | 6,642.6 | 7,731.1 | 6,562.7 | 37.9 | 37.6 | 71.07 | -310.4 | 1,017.4 | 246.5 | 174.6 | 71.91 | 3.428 | | | | | |
| 7,900.0 | 6,642.0 | 7,831.1 | 6,562.1 | 40.4 | 40.2 | 71.07 | -310.4 | 1,117.4 | 246.5 | 169.7 | 76.77 | 3.211 | | | | | |
| 8,000.0 | 6,641.5 | 7,931.1 | 6,561.5 | 43.0 | 42.8 | 71.07 | -310.4 | 1,217.4 | 246.5 | 164.8 | 81.69 | 3.018 | | | | | |
| 8,100.0 | 6,640.9 | 8,031.1 | 6,560.9 | 45.6 | 45.4 | 71.07 | -310.4 | 1,317.4 | 246.5 | 159.9 | 86.65 | 2.845 | | | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1) | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 0-MWD | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 8,200.0 | 6,640.3 | 8,131.1 | 6,560.3 | 48.3 | 48.0 | 71.07 | -310.4 | 1,417.4 | 246.5 | 154.8 | 91.66 | 2.689 | |
| 8,300.0 | 6,639.7 | 8,231.1 | 6,559.7 | 50.9 | 50.7 | 71.07 | -310.4 | 1,517.4 | 246.5 | 149.8 | 96.70 | 2.549 | |
| 8,400.0 | 6,639.1 | 8,331.1 | 6,559.1 | 53.6 | 53.4 | 71.07 | -310.4 | 1,617.4 | 246.5 | 144.7 | 101.78 | 2.422 | |
| 8,500.0 | 6,638.5 | 8,431.1 | 6,558.5 | 56.3 | 56.0 | 71.07 | -310.4 | 1,717.4 | 246.5 | 139.6 | 106.87 | 2.307 | |
| 8,600.0 | 6,637.9 | 8,531.1 | 6,557.9 | 59.0 | 58.7 | 71.07 | -310.4 | 1,817.4 | 246.5 | 134.5 | 111.99 | 2.201 | |
| 8,700.0 | 6,637.3 | 8,631.1 | 6,557.3 | 61.7 | 61.5 | 71.07 | -310.4 | 1,917.4 | 246.5 | 129.4 | 117.13 | 2.105 | |
| 8,800.0 | 6,636.7 | 8,731.1 | 6,556.7 | 64.4 | 64.2 | 71.07 | -310.4 | 2,017.4 | 246.5 | 124.2 | 122.29 | 2.016 | |
| 8,900.0 | 6,636.1 | 8,831.1 | 6,556.1 | 67.1 | 66.9 | 71.07 | -310.4 | 2,117.4 | 246.5 | 119.0 | 127.46 | 1.934 | |
| 9,000.0 | 6,635.5 | 8,931.1 | 6,555.5 | 69.8 | 69.6 | 71.07 | -310.4 | 2,217.4 | 246.5 | 113.9 | 132.64 | 1.858 | |
| 9,100.0 | 6,634.9 | 9,031.1 | 6,555.0 | 72.6 | 72.4 | 71.07 | -310.4 | 2,317.4 | 246.5 | 108.7 | 137.84 | 1.788 | |
| 9,200.0 | 6,634.3 | 9,131.1 | 6,554.4 | 75.3 | 75.1 | 71.07 | -310.4 | 2,417.4 | 246.5 | 103.5 | 143.04 | 1.723 | |
| 9,300.0 | 6,633.7 | 9,231.1 | 6,553.8 | 78.1 | 77.8 | 71.07 | -310.4 | 2,517.4 | 246.5 | 98.3 | 148.25 | 1.663 | |
| 9,400.0 | 6,633.1 | 9,331.1 | 6,553.2 | 80.8 | 80.6 | 71.07 | -310.4 | 2,617.4 | 246.5 | 93.0 | 153.48 | 1.606 | |
| 9,500.0 | 6,632.6 | 9,431.1 | 6,552.6 | 83.6 | 83.4 | 71.07 | -310.4 | 2,717.4 | 246.5 | 87.8 | 158.71 | 1.553 | |
| 9,600.0 | 6,632.0 | 9,531.1 | 6,552.0 | 86.3 | 86.1 | 71.07 | -310.4 | 2,817.4 | 246.5 | 82.6 | 163.94 | 1.504 | |
| 9,700.0 | 6,631.4 | 9,631.1 | 6,551.4 | 89.1 | 88.9 | 71.07 | -310.4 | 2,917.4 | 246.5 | 77.3 | 169.19 | 1.457 | Level 3 |
| 9,800.0 | 6,630.8 | 9,731.1 | 6,550.8 | 91.9 | 91.6 | 71.07 | -310.4 | 3,017.4 | 246.5 | 72.1 | 174.43 | 1.413 | Level 3 |
| 9,900.0 | 6,630.2 | 9,831.1 | 6,550.2 | 94.6 | 94.4 | 71.07 | -310.4 | 3,117.4 | 246.5 | 66.8 | 179.69 | 1.372 | Level 3 |
| 10,000.0 | 6,629.6 | 9,931.1 | 6,549.6 | 97.4 | 97.2 | 71.07 | -310.4 | 3,217.4 | 246.5 | 61.6 | 184.94 | 1.333 | Level 3 |
| 10,100.0 | 6,629.0 | 10,031.1 | 6,549.0 | 100.2 | 100.0 | 71.07 | -310.4 | 3,317.4 | 246.5 | 56.3 | 190.21 | 1.296 | Level 3 |
| 10,200.0 | 6,628.4 | 10,131.1 | 6,548.4 | 102.9 | 102.7 | 71.07 | -310.4 | 3,417.4 | 246.5 | 51.0 | 195.47 | 1.261 | Level 3 |
| 10,300.0 | 6,627.8 | 10,231.1 | 6,547.8 | 105.7 | 105.5 | 71.07 | -310.4 | 3,517.4 | 246.5 | 45.8 | 200.74 | 1.228 | Level 2 |
| 10,400.0 | 6,627.2 | 10,331.1 | 6,547.2 | 108.5 | 108.3 | 71.07 | -310.4 | 3,617.4 | 246.5 | 40.5 | 206.01 | 1.197 | Level 2 |
| 10,500.0 | 6,626.6 | 10,431.1 | 6,546.6 | 111.3 | 111.1 | 71.07 | -310.4 | 3,717.4 | 246.5 | 35.2 | 211.29 | 1.167 | Level 2 |
| 10,600.0 | 6,626.0 | 10,531.1 | 6,546.0 | 114.1 | 113.8 | 71.07 | -310.4 | 3,817.4 | 246.5 | 29.9 | 216.57 | 1.138 | Level 2 |
| 10,700.0 | 6,625.4 | 10,631.1 | 6,545.4 | 116.8 | 116.6 | 71.07 | -310.4 | 3,917.4 | 246.5 | 24.7 | 221.85 | 1.111 | Level 2 |
| 10,800.0 | 6,624.8 | 10,731.1 | 6,544.8 | 119.6 | 119.4 | 71.07 | -310.4 | 4,017.4 | 246.5 | 19.4 | 227.13 | 1.085 | Level 2 |
| 10,900.0 | 6,624.2 | 10,831.1 | 6,544.2 | 122.4 | 122.2 | 71.07 | -310.4 | 4,117.4 | 246.5 | 14.1 | 232.42 | 1.061 | Level 2 |
| 11,000.0 | 6,623.6 | 10,931.1 | 6,543.6 | 125.2 | 125.0 | 71.07 | -310.4 | 4,217.4 | 246.5 | 8.8 | 237.71 | 1.037 | Level 2 |
| 11,100.0 | 6,623.0 | 11,031.1 | 6,543.0 | 128.0 | 127.8 | 71.07 | -310.4 | 4,317.4 | 246.5 | 3.5 | 243.00 | 1.014 | Level 2 |
| 11,200.0 | 6,622.4 | 11,131.1 | 6,542.4 | 130.8 | 130.6 | 71.07 | -310.4 | 4,417.4 | 246.5 | -1.8 | 248.29 | 0.993 | Level 1 |
| 11,300.0 | 6,621.8 | 11,231.1 | 6,541.8 | 133.6 | 133.3 | 71.07 | -310.4 | 4,517.4 | 246.5 | -7.1 | 253.58 | 0.972 | Level 1 |
| 11,400.0 | 6,621.2 | 11,331.1 | 6,541.2 | 136.3 | 136.1 | 71.07 | -310.4 | 4,617.4 | 246.5 | -12.4 | 258.88 | 0.952 | Level 1 |
| 11,500.0 | 6,620.6 | 11,431.1 | 6,540.6 | 139.1 | 138.9 | 71.07 | -310.4 | 4,717.4 | 246.5 | -17.7 | 264.18 | 0.933 | Level 1 |
| 11,600.0 | 6,620.0 | 11,531.1 | 6,540.0 | 141.9 | 141.7 | 71.07 | -310.4 | 4,817.4 | 246.5 | -23.0 | 269.47 | 0.915 | Level 1 |
| 11,700.0 | 6,619.4 | 11,631.1 | 6,539.4 | 144.7 | 144.5 | 71.07 | -310.4 | 4,917.4 | 246.5 | -28.3 | 274.77 | 0.897 | Level 1 |
| 11,800.0 | 6,618.8 | 11,731.1 | 6,538.8 | 147.5 | 147.3 | 71.07 | -310.4 | 5,017.4 | 246.5 | -33.6 | 280.07 | 0.880 | Level 1 |
| 11,900.0 | 6,618.2 | 11,831.1 | 6,538.2 | 150.3 | 150.1 | 71.07 | -310.4 | 5,117.4 | 246.5 | -38.9 | 285.38 | 0.864 | Level 1 |
| 12,000.0 | 6,617.6 | 11,931.1 | 6,537.6 | 153.1 | 152.9 | 71.07 | -310.4 | 5,217.4 | 246.5 | -44.2 | 290.68 | 0.848 | Level 1 |
| 12,100.0 | 6,617.0 | 12,031.1 | 6,537.0 | 155.9 | 155.7 | 71.07 | -310.4 | 5,317.4 | 246.5 | -49.5 | 295.98 | 0.833 | Level 1 |
| 12,200.0 | 6,616.4 | 12,131.1 | 6,536.4 | 158.7 | 158.5 | 71.07 | -310.4 | 5,417.4 | 246.5 | -54.8 | 301.29 | 0.818 | Level 1 |
| 12,300.0 | 6,615.8 | 12,231.1 | 6,535.8 | 161.5 | 161.3 | 71.07 | -310.4 | 5,517.4 | 246.5 | -60.1 | 306.60 | 0.804 | Level 1 |
| 12,400.0 | 6,615.2 | 12,331.1 | 6,535.2 | 164.3 | 164.1 | 71.07 | -310.4 | 5,617.4 | 246.5 | -65.4 | 311.90 | 0.790 | Level 1 |
| 12,500.0 | 6,614.6 | 12,431.1 | 6,534.6 | 167.1 | 166.9 | 71.07 | -310.4 | 5,717.4 | 246.5 | -70.7 | 317.21 | 0.777 | Level 1 |
| 12,600.0 | 6,614.0 | 12,531.1 | 6,534.0 | 169.9 | 169.7 | 71.07 | -310.4 | 5,817.4 | 246.5 | -76.0 | 322.52 | 0.764 | Level 1 |
| 12,700.0 | 6,613.4 | 12,631.1 | 6,533.4 | 172.7 | 172.5 | 71.07 | -310.4 | 5,917.4 | 246.5 | -81.3 | 327.83 | 0.752 | Level 1 |
| 12,800.0 | 6,612.8 | 12,731.1 | 6,532.8 | 175.5 | 175.3 | 71.07 | -310.4 | 6,017.4 | 246.5 | -86.6 | 333.14 | 0.740 | Level 1 |
| 12,900.0 | 6,612.2 | 12,831.1 | 6,532.2 | 178.3 | 178.1 | 71.07 | -310.4 | 6,117.4 | 246.5 | -92.0 | 338.45 | 0.728 | Level 1 |
| 13,000.0 | 6,611.6 | 12,931.1 | 6,531.6 | 181.1 | 180.9 | 71.07 | -310.4 | 6,217.4 | 246.5 | -97.3 | 343.76 | 0.717 | Level 1 |
| 13,100.0 | 6,611.0 | 13,031.1 | 6,531.0 | 183.9 | 183.7 | 71.07 | -310.4 | 6,317.4 | 246.5 | -102.6 | 349.08 | 0.706 | Level 1 |
| 13,200.0 | 6,610.4 | 13,131.1 | 6,530.4 | 186.7 | 186.5 | 71.07 | -310.4 | 6,417.4 | 246.5 | -107.9 | 354.39 | 0.696 | Level 1 |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1) | | Offset Site Error: | | 0.0 ft |
|-----------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-----------------------|---|--------------------|--------------------|--------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | | Offset Well Error: | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | | | | |
| 13,300.0 | 6,610.0 | 13,231.1 | 6,530.0 | 189.5 | 189.3 | 71.07 | -310.4 | 6,517.4 | 246.5 | -113.2 | 359.70 | 0.685 | Level 1 | | | | |
| 13,400.0 | 6,609.4 | 13,331.1 | 6,529.4 | 192.3 | 192.1 | 71.07 | -310.4 | 6,617.4 | 246.5 | -118.5 | 365.02 | 0.675 | Level 1 | | | | |
| 13,500.0 | 6,608.8 | 13,431.1 | 6,528.8 | 195.1 | 194.9 | 71.07 | -310.4 | 6,717.3 | 246.5 | -123.8 | 370.33 | 0.666 | Level 1 | | | | |
| 13,600.0 | 6,608.2 | 13,531.1 | 6,528.2 | 197.9 | 197.7 | 71.07 | -310.4 | 6,817.3 | 246.5 | -129.2 | 375.65 | 0.656 | Level 1 | | | | |
| 13,700.0 | 6,607.6 | 13,631.1 | 6,527.7 | 200.7 | 200.5 | 71.07 | -310.4 | 6,917.3 | 246.5 | -134.5 | 380.97 | 0.647 | Level 1 | | | | |
| 13,800.0 | 6,607.0 | 13,731.1 | 6,527.1 | 203.5 | 203.3 | 71.07 | -310.4 | 7,017.3 | 246.5 | -139.8 | 386.28 | 0.638 | Level 1 | | | | |
| 13,900.0 | 6,606.4 | 13,831.1 | 6,526.5 | 206.3 | 206.1 | 71.07 | -310.4 | 7,117.3 | 246.5 | -145.1 | 391.60 | 0.629 | Level 1 | | | | |
| 14,000.0 | 6,605.9 | 13,931.1 | 6,525.9 | 209.1 | 208.9 | 71.07 | -310.4 | 7,217.3 | 246.5 | -150.4 | 396.92 | 0.621 | Level 1 | | | | |
| 14,100.0 | 6,605.3 | 14,031.1 | 6,525.3 | 211.9 | 211.7 | 71.07 | -310.4 | 7,317.3 | 246.5 | -155.7 | 402.23 | 0.613 | Level 1 | | | | |
| 14,200.0 | 6,604.7 | 14,131.1 | 6,524.7 | 214.7 | 214.5 | 71.07 | -310.4 | 7,417.3 | 246.5 | -161.1 | 407.55 | 0.605 | Level 1 | | | | |
| 14,300.0 | 6,604.1 | 14,231.1 | 6,524.1 | 217.5 | 217.3 | 71.07 | -310.4 | 7,517.3 | 246.5 | -166.4 | 412.87 | 0.597 | Level 1 | | | | |
| 14,400.0 | 6,603.5 | 14,331.1 | 6,523.5 | 220.3 | 220.1 | 71.07 | -310.4 | 7,617.3 | 246.5 | -171.7 | 418.19 | 0.589 | Level 1 | | | | |
| 14,500.0 | 6,602.9 | 14,431.1 | 6,522.9 | 223.1 | 222.9 | 71.07 | -310.4 | 7,717.3 | 246.5 | -177.0 | 423.51 | 0.582 | Level 1 | | | | |
| 14,600.0 | 6,602.3 | 14,531.1 | 6,522.3 | 225.9 | 225.7 | 71.07 | -310.4 | 7,817.3 | 246.5 | -182.3 | 428.83 | 0.575 | Level 1 | | | | |
| 14,700.0 | 6,601.7 | 14,631.1 | 6,521.7 | 228.7 | 228.5 | 71.07 | -310.4 | 7,917.3 | 246.5 | -187.7 | 434.15 | 0.568 | Level 1 | | | | |
| 14,800.0 | 6,601.1 | 14,731.1 | 6,521.1 | 231.5 | 231.3 | 71.07 | -310.4 | 8,017.3 | 246.5 | -193.0 | 439.47 | 0.561 | Level 1 | | | | |
| 14,900.0 | 6,600.5 | 14,831.1 | 6,520.5 | 234.3 | 234.1 | 71.07 | -310.4 | 8,117.3 | 246.5 | -198.3 | 444.79 | 0.554 | Level 1 | | | | |
| 15,000.0 | 6,599.9 | 14,931.1 | 6,519.9 | 237.1 | 236.9 | 71.07 | -310.4 | 8,217.3 | 246.5 | -203.6 | 450.11 | 0.548 | Level 1 | | | | |
| 15,100.0 | 6,599.3 | 15,031.1 | 6,519.3 | 239.9 | 239.7 | 71.07 | -310.4 | 8,317.3 | 246.5 | -208.9 | 455.43 | 0.541 | Level 1 | | | | |
| 15,200.0 | 6,598.7 | 15,131.1 | 6,518.8 | 242.7 | 242.5 | 71.07 | -310.4 | 8,417.3 | 246.5 | -214.3 | 460.76 | 0.535 | Level 1 | | | | |
| 15,300.0 | 6,598.1 | 15,231.1 | 6,518.2 | 245.5 | 245.3 | 71.07 | -310.4 | 8,517.3 | 246.5 | -219.6 | 466.08 | 0.529 | Level 1 | | | | |
| 15,400.0 | 6,597.5 | 15,331.1 | 6,517.6 | 248.3 | 248.1 | 71.07 | -310.4 | 8,617.3 | 246.5 | -224.9 | 471.40 | 0.523 | Level 1 | | | | |
| 15,500.0 | 6,596.9 | 15,431.1 | 6,517.0 | 251.1 | 250.9 | 71.07 | -310.4 | 8,717.3 | 246.5 | -230.2 | 476.72 | 0.517 | Level 1 | | | | |
| 15,600.0 | 6,596.4 | 15,531.1 | 6,516.4 | 253.9 | 253.7 | 71.07 | -310.4 | 8,817.3 | 246.5 | -235.6 | 482.04 | 0.511 | Level 1 | | | | |
| 15,700.0 | 6,595.8 | 15,631.1 | 6,515.8 | 256.7 | 256.5 | 71.07 | -310.4 | 8,917.3 | 246.5 | -240.9 | 487.37 | 0.506 | Level 1 | | | | |
| 15,800.0 | 6,595.2 | 15,731.1 | 6,515.2 | 259.5 | 259.3 | 71.07 | -310.4 | 9,017.3 | 246.5 | -246.2 | 492.69 | 0.500 | Level 1 | | | | |
| 15,900.0 | 6,594.6 | 15,831.1 | 6,514.6 | 262.3 | 262.1 | 71.07 | -310.4 | 9,117.3 | 246.5 | -251.5 | 498.01 | 0.495 | Level 1 | | | | |
| 16,000.0 | 6,594.0 | 15,931.1 | 6,514.0 | 265.1 | 264.9 | 71.07 | -310.4 | 9,217.3 | 246.5 | -256.8 | 503.34 | 0.490 | Level 1 | | | | |
| 16,100.0 | 6,593.4 | 16,031.1 | 6,513.4 | 267.9 | 267.7 | 71.07 | -310.4 | 9,317.3 | 246.5 | -262.2 | 508.66 | 0.485 | Level 1 | | | | |
| 16,200.0 | 6,592.8 | 16,131.1 | 6,512.8 | 270.7 | 270.5 | 71.07 | -310.4 | 9,417.3 | 246.5 | -267.5 | 513.99 | 0.480 | Level 1 | | | | |
| 16,300.0 | 6,592.2 | 16,231.1 | 6,512.2 | 273.5 | 273.3 | 71.07 | -310.4 | 9,517.3 | 246.5 | -272.8 | 519.31 | 0.475 | Level 1 | | | | |
| 16,334.1 | 6,592.0 | 16,265.1 | 6,512.0 | 274.5 | 274.3 | 71.07 | -310.4 | 9,551.4 | 246.5 | -274.6 | 521.12 | 0.473 Level 1, ES, SF | | | | | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | | | | | | | | | | | | | |
| Offset | | | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -50.35 | 9.5 | -11.4 | 14.8 | 14.8 | 0.00 | N/A | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -50.35 | 9.5 | -11.4 | 14.8 | 14.6 | 0.22 | 66.014 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -50.35 | 9.5 | -11.4 | 14.8 | 14.2 | 0.67 | 22.005 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | -50.35 | 9.5 | -11.4 | 14.8 | 13.7 | 1.12 | 13.203 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | -50.35 | 9.5 | -11.4 | 14.8 | 13.3 | 1.57 | 9.431 | | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -50.35 | 9.5 | -11.4 | 14.8 | 12.8 | 2.02 | 7.335 | | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.2 | 1.2 | -50.35 | 9.5 | -11.4 | 14.8 | 12.4 | 2.47 | 6.001 | | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.5 | 1.5 | -50.35 | 9.5 | -11.4 | 14.8 | 11.9 | 2.92 | 5.078 | | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.7 | 1.7 | -50.35 | 9.5 | -11.4 | 14.8 | 11.5 | 3.37 | 4.401 | | |
| 900.0 | 900.0 | 900.0 | 900.0 | 1.9 | 1.9 | -50.35 | 9.5 | -11.4 | 14.8 | 11.0 | 3.82 | 3.883 | | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 2.1 | 2.1 | -50.35 | 9.5 | -11.4 | 14.8 | 10.6 | 4.27 | 3.474 | | |
| 1,100.0 | 1,100.0 | 1,100.0 | 1,100.0 | 2.4 | 2.4 | -50.35 | 9.5 | -11.4 | 14.8 | 10.1 | 4.72 | 3.144 | | |
| 1,200.0 | 1,200.0 | 1,200.0 | 1,200.0 | 2.6 | 2.6 | -50.35 | 9.5 | -11.4 | 14.8 | 9.7 | 5.17 | 2.870 | | |
| 1,300.0 | 1,300.0 | 1,300.0 | 1,300.0 | 2.8 | 2.8 | -50.35 | 9.5 | -11.4 | 14.8 | 9.2 | 5.62 | 2.641 | | |
| 1,400.0 | 1,400.0 | 1,400.0 | 1,400.0 | 3.0 | 3.0 | -50.35 | 9.5 | -11.4 | 14.8 | 8.8 | 6.07 | 2.445 | | |
| 1,500.0 | 1,500.0 | 1,500.0 | 1,500.0 | 3.3 | 3.3 | -50.35 | 9.5 | -11.4 | 14.8 | 8.3 | 6.52 | 2.276 | | |
| 1,600.0 | 1,600.0 | 1,600.0 | 1,600.0 | 3.5 | 3.5 | -50.35 | 9.5 | -11.4 | 14.8 | 7.9 | 6.97 | 2.129 CC | | |
| 1,700.0 | 1,700.0 | 1,699.6 | 1,699.6 | 3.7 | 3.7 | -51.93 | 9.9 | -12.6 | 16.1 | 8.7 | 7.41 | 2.169 | | |
| 1,800.0 | 1,800.0 | 1,799.1 | 1,799.0 | 3.9 | 3.9 | -55.48 | 11.2 | -16.3 | 19.8 | 12.0 | 7.84 | 2.528 | | |
| 1,900.0 | 1,900.0 | 1,898.3 | 1,898.0 | 4.2 | 4.1 | -59.10 | 13.4 | -22.4 | 26.2 | 17.9 | 8.28 | 3.160 | | |
| 2,000.0 | 2,000.0 | 1,997.1 | 1,996.4 | 4.4 | 4.3 | -61.96 | 16.4 | -30.8 | 35.1 | 26.4 | 8.72 | 4.026 | | |
| 2,100.0 | 2,100.0 | 2,095.5 | 2,094.1 | 4.6 | 4.6 | 36.65 | 20.3 | -41.6 | 46.0 | 36.9 | 9.13 | 5.038 | | |
| 2,200.0 | 2,200.0 | 2,194.1 | 2,191.8 | 4.8 | 4.8 | 36.48 | 24.9 | -54.6 | 57.7 | 48.2 | 9.54 | 6.052 | | |
| 2,300.0 | 2,299.9 | 2,293.6 | 2,290.2 | 5.0 | 5.1 | 37.19 | 29.7 | -67.9 | 68.4 | 58.4 | 9.95 | 6.874 | | |
| 2,400.0 | 2,399.7 | 2,393.1 | 2,388.7 | 5.2 | 5.4 | 38.49 | 34.5 | -81.2 | 77.7 | 67.4 | 10.37 | 7.495 | | |
| 2,500.0 | 2,499.4 | 2,492.8 | 2,487.4 | 5.4 | 5.7 | 40.24 | 39.3 | -94.6 | 85.7 | 74.9 | 10.80 | 7.939 | | |
| 2,600.0 | 2,598.9 | 2,592.5 | 2,586.1 | 5.6 | 6.0 | 42.42 | 44.1 | -108.0 | 92.5 | 81.3 | 11.24 | 8.232 | | |
| 2,700.0 | 2,698.3 | 2,692.2 | 2,684.8 | 5.9 | 6.3 | 45.00 | 48.9 | -121.4 | 98.2 | 86.5 | 11.70 | 8.395 | | |
| 2,800.0 | 2,797.4 | 2,792.0 | 2,783.5 | 6.1 | 6.6 | 48.02 | 53.7 | -134.7 | 102.9 | 90.7 | 12.18 | 8.447 | | |
| 2,811.9 | 2,809.2 | 2,803.8 | 2,795.2 | 6.1 | 6.6 | 48.40 | 54.2 | -136.3 | 103.4 | 91.2 | 12.24 | 8.447 | | |
| 2,900.0 | 2,896.4 | 2,891.7 | 2,882.2 | 6.4 | 6.9 | 51.23 | 58.5 | -148.1 | 107.2 | 94.5 | 12.70 | 8.443 | | |
| 3,000.0 | 2,995.4 | 2,991.4 | 2,980.9 | 6.6 | 7.2 | 54.19 | 63.2 | -161.5 | 111.8 | 98.6 | 13.23 | 8.449 | | |
| 3,100.0 | 3,094.4 | 3,091.2 | 3,079.7 | 6.9 | 7.5 | 56.91 | 68.0 | -174.9 | 116.7 | 102.9 | 13.78 | 8.463 | | |
| 3,200.0 | 3,193.4 | 3,190.9 | 3,178.4 | 7.2 | 7.8 | 59.42 | 72.8 | -188.3 | 121.8 | 107.4 | 14.35 | 8.484 | | |
| 3,300.0 | 3,292.4 | 3,290.6 | 3,277.1 | 7.5 | 8.1 | 61.71 | 77.6 | -201.6 | 127.1 | 112.2 | 14.93 | 8.510 | | |
| 3,400.0 | 3,391.4 | 3,390.4 | 3,375.8 | 7.8 | 8.5 | 63.82 | 82.4 | -215.0 | 132.6 | 117.1 | 15.53 | 8.538 | | |
| 3,500.0 | 3,490.4 | 3,490.1 | 3,474.5 | 8.1 | 8.8 | 65.76 | 87.2 | -228.4 | 138.3 | 122.1 | 16.14 | 8.569 | | |
| 3,600.0 | 3,589.4 | 3,589.8 | 3,573.2 | 8.4 | 9.1 | 67.55 | 92.0 | -241.8 | 144.1 | 127.3 | 16.75 | 8.601 | | |
| 3,700.0 | 3,688.4 | 3,689.6 | 3,671.9 | 8.7 | 9.4 | 69.19 | 96.8 | -255.1 | 150.0 | 132.7 | 17.38 | 8.635 | | |
| 3,800.0 | 3,787.4 | 3,789.3 | 3,770.7 | 9.0 | 9.8 | 70.71 | 101.6 | -268.5 | 156.1 | 138.1 | 18.01 | 8.668 | | |
| 3,900.0 | 3,886.4 | 3,889.0 | 3,869.4 | 9.3 | 10.1 | 72.11 | 106.4 | -281.9 | 162.3 | 143.6 | 18.65 | 8.702 | | |
| 4,000.0 | 3,985.4 | 3,988.8 | 3,968.1 | 9.6 | 10.4 | 73.42 | 111.2 | -295.3 | 168.5 | 149.2 | 19.29 | 8.736 | | |
| 4,100.0 | 4,084.4 | 4,088.5 | 4,066.8 | 9.9 | 10.8 | 74.62 | 116.0 | -308.7 | 174.9 | 154.9 | 19.94 | 8.769 | | |
| 4,200.0 | 4,183.4 | 4,188.2 | 4,165.5 | 10.3 | 11.1 | 75.75 | 120.8 | -322.0 | 181.3 | 160.7 | 20.59 | 8.802 | | |
| 4,300.0 | 4,282.4 | 4,288.0 | 4,264.2 | 10.6 | 11.4 | 76.79 | 125.6 | -335.4 | 187.7 | 166.5 | 21.25 | 8.835 | | |
| 4,400.0 | 4,381.4 | 4,387.7 | 4,363.0 | 10.9 | 11.8 | 77.77 | 130.4 | -348.8 | 194.3 | 172.3 | 21.91 | 8.866 | | |
| 4,500.0 | 4,480.4 | 4,487.4 | 4,461.7 | 11.2 | 12.1 | 78.68 | 135.2 | -362.2 | 200.8 | 178.3 | 22.57 | 8.898 | | |
| 4,600.0 | 4,579.4 | 4,587.2 | 4,560.4 | 11.6 | 12.4 | 79.53 | 140.0 | -375.5 | 207.5 | 184.2 | 23.24 | 8.928 | | |
| 4,700.0 | 4,678.4 | 4,686.9 | 4,659.1 | 11.9 | 12.8 | 80.33 | 144.8 | -388.9 | 214.1 | 190.2 | 23.91 | 8.958 | | |
| 4,800.0 | 4,777.4 | 4,786.6 | 4,757.8 | 12.2 | 13.1 | 81.09 | 149.5 | -402.3 | 220.9 | 196.3 | 24.58 | 8.987 | | |
| 4,900.0 | 4,876.4 | 4,889.7 | 4,859.9 | 12.6 | 13.4 | 81.98 | 154.2 | -415.4 | 227.1 | 201.9 | 25.23 | 9.001 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | | 0.0 ft |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | | |
| 5,000.0 | 4,975.4 | 4,994.4 | 4,964.2 | 12.9 | 13.7 | 83.56 | 157.8 | -425.3 | 231.4 | 205.5 | 25.86 | 8.950 | | | |
| 5,100.0 | 5,074.4 | 5,098.9 | 5,068.4 | 13.2 | 13.9 | 85.83 | 160.0 | -431.6 | 233.8 | 207.3 | 26.48 | 8.829 | | | |
| 5,200.0 | 5,173.4 | 5,202.7 | 5,172.2 | 13.6 | 14.1 | 88.82 | 161.0 | -434.3 | 234.6 | 207.5 | 27.09 | 8.660 | | | |
| 5,300.0 | 5,272.3 | 5,302.9 | 5,272.3 | 13.9 | 14.2 | 92.25 | 161.1 | -434.4 | 234.8 | 207.1 | 27.69 | 8.480 | | | |
| 5,323.3 | 5,295.4 | 5,326.0 | 5,295.4 | 14.0 | 14.3 | 93.04 | 161.1 | -434.4 | 235.0 | 207.2 | 27.83 | 8.442 | | | |
| 5,400.0 | 5,371.5 | 5,402.0 | 5,371.5 | 14.2 | 14.4 | 95.42 | 161.1 | -434.4 | 235.7 | 207.5 | 28.24 | 8.346 | | | |
| 5,500.0 | 5,471.0 | 5,501.5 | 5,471.0 | 14.4 | 14.6 | 97.78 | 161.1 | -434.4 | 236.8 | 208.2 | 28.69 | 8.255 | | | |
| 5,600.0 | 5,570.8 | 5,601.3 | 5,570.8 | 14.6 | 14.8 | 99.28 | 161.1 | -434.4 | 237.8 | 208.7 | 29.09 | 8.173 | | | |
| 5,700.0 | 5,670.8 | 5,701.3 | 5,670.8 | 14.8 | 14.9 | 99.95 | 161.1 | -434.4 | 238.2 | 208.8 | 29.46 | 8.086 | | | |
| 5,729.2 | 5,700.0 | 5,730.5 | 5,700.0 | 14.9 | 15.0 | -0.10 | 161.1 | -434.4 | 238.3 | 212.8 | 25.48 | 9.353 | | | |
| 5,800.0 | 5,770.8 | 5,801.3 | 5,770.8 | 15.0 | 15.1 | -0.10 | 161.1 | -434.4 | 238.3 | 212.5 | 25.76 | 9.249 | | | |
| 5,858.0 | 5,828.7 | 5,859.3 | 5,828.7 | 15.1 | 15.2 | 0.00 | 161.1 | -434.0 | 238.3 | 212.3 | 25.99 | 9.167 | | | |
| 5,900.0 | 5,870.8 | 5,901.2 | 5,870.5 | 15.1 | 15.3 | 0.61 | 161.1 | -431.5 | 238.3 | 212.1 | 26.15 | 9.113 | | | |
| 5,912.0 | 5,882.8 | 5,913.1 | 5,882.4 | 15.2 | 15.3 | 0.89 | 161.1 | -430.3 | 238.3 | 212.1 | 26.19 | 9.099 | | | |
| 5,950.0 | 5,920.7 | 5,950.6 | 5,919.6 | 15.2 | 15.3 | -88.18 | 161.1 | -425.5 | 238.4 | 208.1 | 30.27 | 7.876 | | | |
| 6,000.0 | 5,970.6 | 6,000.0 | 5,968.1 | 15.3 | 15.3 | -86.95 | 161.1 | -416.4 | 238.6 | 208.3 | 30.34 | 7.865 | | | |
| 6,050.0 | 6,020.0 | 6,048.4 | 6,015.1 | 15.3 | 15.3 | -85.75 | 161.1 | -404.5 | 238.9 | 208.6 | 30.36 | 7.869 | | | |
| 6,100.0 | 6,068.9 | 6,096.9 | 6,061.2 | 15.3 | 15.3 | -84.57 | 161.1 | -389.6 | 239.3 | 209.0 | 30.36 | 7.885 | | | |
| 6,150.0 | 6,116.9 | 6,145.1 | 6,106.0 | 15.3 | 15.3 | -83.42 | 161.1 | -371.9 | 239.9 | 209.5 | 30.32 | 7.911 | | | |
| 6,200.0 | 6,164.0 | 6,193.0 | 6,149.3 | 15.3 | 15.3 | -82.31 | 161.1 | -351.5 | 240.4 | 210.2 | 30.26 | 7.946 | | | |
| 6,250.0 | 6,209.8 | 6,240.6 | 6,191.1 | 15.3 | 15.3 | -81.23 | 161.1 | -328.7 | 241.1 | 210.9 | 30.19 | 7.986 | | | |
| 6,300.0 | 6,254.3 | 6,288.0 | 6,231.2 | 15.2 | 15.2 | -80.20 | 161.1 | -303.4 | 241.8 | 211.7 | 30.13 | 8.027 | | | |
| 6,350.0 | 6,297.2 | 6,335.1 | 6,269.4 | 15.2 | 15.2 | -79.22 | 161.1 | -275.8 | 242.6 | 212.5 | 30.08 | 8.065 | | | |
| 6,400.0 | 6,338.2 | 6,382.0 | 6,305.6 | 15.2 | 15.3 | -78.28 | 161.1 | -246.0 | 243.4 | 213.3 | 30.06 | 8.095 | | | |
| 6,450.0 | 6,377.4 | 6,428.7 | 6,339.9 | 15.3 | 15.3 | -77.40 | 161.1 | -214.2 | 244.2 | 214.1 | 30.10 | 8.112 | | | |
| 6,500.0 | 6,414.4 | 6,475.3 | 6,372.0 | 15.3 | 15.5 | -76.57 | 161.1 | -180.6 | 245.0 | 214.8 | 30.21 | 8.109 | | | |
| 6,550.0 | 6,449.1 | 6,521.6 | 6,401.8 | 15.5 | 15.6 | -75.80 | 161.1 | -145.2 | 245.8 | 215.4 | 30.41 | 8.082 | | | |
| 6,600.0 | 6,481.5 | 6,567.7 | 6,429.4 | 15.6 | 15.8 | -75.10 | 161.1 | -108.2 | 246.6 | 215.9 | 30.72 | 8.026 | | | |
| 6,650.0 | 6,511.2 | 6,613.7 | 6,454.6 | 15.9 | 16.1 | -74.45 | 161.1 | -69.7 | 247.3 | 216.2 | 31.16 | 7.937 | | | |
| 6,700.0 | 6,538.3 | 6,659.6 | 6,477.4 | 16.2 | 16.5 | -73.87 | 161.1 | -29.9 | 248.1 | 216.3 | 31.74 | 7.815 | | | |
| 6,750.0 | 6,562.5 | 6,705.3 | 6,497.7 | 16.6 | 17.0 | -73.35 | 161.1 | 11.1 | 248.7 | 216.2 | 32.47 | 7.660 | | | |
| 6,800.0 | 6,583.9 | 6,750.0 | 6,515.1 | 17.1 | 17.5 | -72.90 | 161.1 | 52.2 | 249.3 | 216.0 | 33.34 | 7.477 | | | |
| 6,850.0 | 6,602.2 | 6,796.5 | 6,530.7 | 17.7 | 18.1 | -72.50 | 161.1 | 96.0 | 249.8 | 215.4 | 34.40 | 7.263 | | | |
| 6,900.0 | 6,617.5 | 6,842.0 | 6,543.3 | 18.4 | 18.7 | -72.18 | 161.1 | 139.7 | 250.3 | 214.7 | 35.59 | 7.031 | | | |
| 6,950.0 | 6,629.6 | 6,887.4 | 6,553.2 | 19.2 | 19.4 | -71.92 | 161.1 | 184.0 | 250.6 | 213.7 | 36.93 | 6.786 | | | |
| 7,000.0 | 6,638.5 | 6,932.7 | 6,560.5 | 20.0 | 20.2 | -71.73 | 161.1 | 228.7 | 250.9 | 212.5 | 38.40 | 6.534 | | | |
| 7,050.0 | 6,644.2 | 6,978.0 | 6,565.2 | 20.8 | 21.0 | -71.61 | 161.1 | 273.8 | 251.1 | 211.1 | 39.98 | 6.280 | | | |
| 7,100.0 | 6,646.6 | 7,023.3 | 6,567.1 | 21.8 | 21.8 | -71.55 | 161.1 | 319.0 | 251.2 | 209.5 | 41.66 | 6.029 | | | |
| 7,116.5 | 6,646.7 | 7,038.4 | 6,567.2 | 22.1 | 22.1 | -71.55 | 161.1 | 334.1 | 251.2 | 208.9 | 42.23 | 5.947 | | | |
| 7,200.0 | 6,646.2 | 7,121.9 | 6,566.8 | 23.7 | 23.8 | -71.58 | 161.1 | 417.6 | 251.1 | 205.7 | 45.42 | 5.529 | | | |
| 7,300.0 | 6,645.6 | 7,221.9 | 6,566.4 | 25.9 | 25.9 | -71.61 | 161.1 | 517.6 | 251.1 | 201.6 | 49.49 | 5.073 | | | |
| 7,400.0 | 6,645.0 | 7,321.9 | 6,566.0 | 28.1 | 28.2 | -71.65 | 161.1 | 617.6 | 251.0 | 197.2 | 53.79 | 4.667 | | | |
| 7,500.0 | 6,644.4 | 7,421.9 | 6,565.5 | 30.5 | 30.5 | -71.68 | 161.1 | 717.6 | 251.0 | 192.7 | 58.26 | 4.308 | | | |
| 7,600.0 | 6,643.8 | 7,521.9 | 6,565.1 | 32.9 | 33.0 | -71.71 | 161.1 | 817.6 | 250.9 | 188.0 | 62.88 | 3.990 | | | |
| 7,700.0 | 6,643.2 | 7,621.9 | 6,564.7 | 35.3 | 35.4 | -71.75 | 161.1 | 917.6 | 250.9 | 183.3 | 67.61 | 3.711 | | | |
| 7,800.0 | 6,642.6 | 7,721.9 | 6,564.2 | 37.9 | 38.0 | -71.78 | 161.1 | 1,017.6 | 250.8 | 178.4 | 72.43 | 3.463 | | | |
| 7,900.0 | 6,642.0 | 7,821.9 | 6,563.8 | 40.4 | 40.5 | -71.82 | 161.1 | 1,117.6 | 250.8 | 173.5 | 77.33 | 3.243 | | | |
| 8,000.0 | 6,641.5 | 7,921.9 | 6,563.4 | 43.0 | 43.1 | -71.85 | 161.1 | 1,217.6 | 250.7 | 168.4 | 82.29 | 3.047 | | | |
| 8,100.0 | 6,640.9 | 8,021.9 | 6,562.9 | 45.6 | 45.7 | -71.88 | 161.1 | 1,317.6 | 250.7 | 163.4 | 87.30 | 2.872 | | | |
| 8,200.0 | 6,640.3 | 8,121.9 | 6,562.5 | 48.3 | 48.4 | -71.92 | 161.1 | 1,417.6 | 250.6 | 158.3 | 92.35 | 2.714 | | | |
| 8,300.0 | 6,639.7 | 8,221.9 | 6,562.0 | 50.9 | 51.0 | -71.95 | 161.1 | 1,517.6 | 250.6 | 153.1 | 97.44 | 2.572 | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-----------------------|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | | | | | | | | | | | | | |
| Offset | | | | | | | | | | | | | | |
| Semi Major Axis | | | | | | | | | | | | | | |
| Distance | | | | | | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 8,400.0 | 6,639.1 | 8,321.9 | 6,561.6 | 53.6 | 53.7 | -71.99 | 161.1 | 1,617.6 | 250.5 | 148.0 | 102.56 | 2.443 | | |
| 8,500.0 | 6,638.5 | 8,421.9 | 6,561.2 | 56.3 | 56.4 | -72.02 | 161.1 | 1,717.6 | 250.5 | 142.8 | 107.71 | 2.326 | | |
| 8,600.0 | 6,637.9 | 8,521.9 | 6,560.7 | 59.0 | 59.1 | -72.06 | 161.1 | 1,817.6 | 250.4 | 137.6 | 112.88 | 2.219 | | |
| 8,700.0 | 6,637.3 | 8,621.9 | 6,560.3 | 61.7 | 61.8 | -72.09 | 161.1 | 1,917.6 | 250.4 | 132.3 | 118.07 | 2.121 | | |
| 8,800.0 | 6,636.7 | 8,721.9 | 6,559.9 | 64.4 | 64.5 | -72.12 | 161.1 | 2,017.6 | 250.3 | 127.1 | 123.29 | 2.031 | | |
| 8,900.0 | 6,636.1 | 8,821.9 | 6,559.4 | 67.1 | 67.2 | -72.16 | 161.1 | 2,117.6 | 250.3 | 121.8 | 128.51 | 1.948 | | |
| 9,000.0 | 6,635.5 | 8,921.9 | 6,559.0 | 69.8 | 70.0 | -72.19 | 161.1 | 2,217.6 | 250.2 | 116.5 | 133.76 | 1.871 | | |
| 9,100.0 | 6,634.9 | 9,021.9 | 6,558.6 | 72.6 | 72.7 | -72.23 | 161.1 | 2,317.6 | 250.2 | 111.2 | 139.01 | 1.800 | | |
| 9,200.0 | 6,634.3 | 9,121.9 | 6,558.1 | 75.3 | 75.4 | -72.26 | 161.1 | 2,417.6 | 250.2 | 105.9 | 144.28 | 1.734 | | |
| 9,300.0 | 6,633.7 | 9,221.9 | 6,557.7 | 78.1 | 78.2 | -72.29 | 161.1 | 2,517.6 | 250.1 | 100.5 | 149.56 | 1.672 | | |
| 9,400.0 | 6,633.1 | 9,321.9 | 6,557.2 | 80.8 | 80.9 | -72.33 | 161.1 | 2,617.6 | 250.1 | 95.2 | 154.85 | 1.615 | | |
| 9,500.0 | 6,632.6 | 9,421.9 | 6,556.8 | 83.6 | 83.7 | -72.36 | 161.1 | 2,717.6 | 250.0 | 89.9 | 160.15 | 1.561 | | |
| 9,600.0 | 6,632.0 | 9,521.9 | 6,556.4 | 86.3 | 86.5 | -72.40 | 161.1 | 2,817.6 | 250.0 | 84.5 | 165.46 | 1.511 | | |
| 9,700.0 | 6,631.4 | 9,621.9 | 6,555.9 | 89.1 | 89.2 | -72.43 | 161.1 | 2,917.6 | 249.9 | 79.1 | 170.78 | 1.463 Level 3 | | |
| 9,800.0 | 6,630.8 | 9,721.9 | 6,555.5 | 91.9 | 92.0 | -72.47 | 161.1 | 3,017.6 | 249.9 | 73.8 | 176.10 | 1.419 Level 3 | | |
| 9,900.0 | 6,630.2 | 9,821.9 | 6,555.1 | 94.6 | 94.7 | -72.50 | 161.1 | 3,117.6 | 249.8 | 68.4 | 181.43 | 1.377 Level 3 | | |
| 10,000.0 | 6,629.6 | 9,921.9 | 6,554.6 | 97.4 | 97.5 | -72.53 | 161.1 | 3,217.6 | 249.8 | 63.0 | 186.77 | 1.337 Level 3 | | |
| 10,100.0 | 6,629.0 | 10,021.9 | 6,554.2 | 100.2 | 100.3 | -72.57 | 161.1 | 3,317.6 | 249.7 | 57.6 | 192.11 | 1.300 Level 3 | | |
| 10,200.0 | 6,628.4 | 10,121.9 | 6,553.8 | 102.9 | 103.1 | -72.60 | 161.1 | 3,417.6 | 249.7 | 52.2 | 197.46 | 1.264 Level 3 | | |
| 10,300.0 | 6,627.8 | 10,221.9 | 6,553.3 | 105.7 | 105.8 | -72.64 | 161.1 | 3,517.6 | 249.6 | 46.8 | 202.81 | 1.231 Level 2 | | |
| 10,400.0 | 6,627.2 | 10,321.9 | 6,552.9 | 108.5 | 108.6 | -72.67 | 161.1 | 3,617.6 | 249.6 | 41.4 | 208.17 | 1.199 Level 2 | | |
| 10,500.0 | 6,626.6 | 10,421.9 | 6,552.4 | 111.3 | 111.4 | -72.71 | 161.1 | 3,717.6 | 249.5 | 36.0 | 213.53 | 1.169 Level 2 | | |
| 10,600.0 | 6,626.0 | 10,521.9 | 6,552.0 | 114.1 | 114.2 | -72.74 | 161.1 | 3,817.6 | 249.5 | 30.6 | 218.90 | 1.140 Level 2 | | |
| 10,700.0 | 6,625.4 | 10,621.9 | 6,551.6 | 116.8 | 117.0 | -72.78 | 161.1 | 3,917.5 | 249.4 | 25.2 | 224.27 | 1.112 Level 2 | | |
| 10,800.0 | 6,624.8 | 10,721.9 | 6,551.1 | 119.6 | 119.7 | -72.81 | 161.1 | 4,017.5 | 249.4 | 19.7 | 229.65 | 1.086 Level 2 | | |
| 10,900.0 | 6,624.2 | 10,821.9 | 6,550.7 | 122.4 | 122.5 | -72.84 | 161.1 | 4,117.5 | 249.4 | 14.3 | 235.03 | 1.061 Level 2 | | |
| 11,000.0 | 6,623.7 | 10,921.9 | 6,550.3 | 125.2 | 125.3 | -72.88 | 161.1 | 4,217.5 | 249.3 | 8.9 | 240.42 | 1.037 Level 2 | | |
| 11,100.0 | 6,623.1 | 11,021.9 | 6,549.8 | 128.0 | 128.1 | -72.91 | 161.1 | 4,317.5 | 249.3 | 3.5 | 245.81 | 1.014 Level 2 | | |
| 11,200.0 | 6,622.5 | 11,121.9 | 6,549.4 | 130.8 | 130.9 | -72.95 | 161.1 | 4,417.5 | 249.2 | -2.0 | 251.20 | 0.992 Level 1 | | |
| 11,300.0 | 6,621.9 | 11,221.9 | 6,549.0 | 133.6 | 133.7 | -72.98 | 161.1 | 4,517.5 | 249.2 | -7.4 | 256.60 | 0.971 Level 1 | | |
| 11,400.0 | 6,621.3 | 11,321.9 | 6,548.5 | 136.3 | 136.5 | -73.02 | 161.1 | 4,617.5 | 249.1 | -12.9 | 262.00 | 0.951 Level 1 | | |
| 11,500.0 | 6,620.7 | 11,421.9 | 6,548.1 | 139.1 | 139.3 | -73.05 | 161.1 | 4,717.5 | 249.1 | -18.3 | 267.40 | 0.931 Level 1 | | |
| 11,600.0 | 6,620.1 | 11,521.9 | 6,547.6 | 141.9 | 142.1 | -73.09 | 161.1 | 4,817.5 | 249.0 | -23.8 | 272.80 | 0.913 Level 1 | | |
| 11,700.0 | 6,619.5 | 11,621.9 | 6,547.2 | 144.7 | 144.8 | -73.12 | 161.1 | 4,917.5 | 249.0 | -29.2 | 278.21 | 0.895 Level 1 | | |
| 11,800.0 | 6,618.9 | 11,721.9 | 6,546.8 | 147.5 | 147.6 | -73.16 | 161.1 | 5,017.5 | 248.9 | -34.7 | 283.63 | 0.878 Level 1 | | |
| 11,900.0 | 6,618.3 | 11,821.9 | 6,546.3 | 150.3 | 150.4 | -73.19 | 161.1 | 5,117.5 | 248.9 | -40.1 | 289.04 | 0.861 Level 1 | | |
| 12,000.0 | 6,617.7 | 11,921.9 | 6,545.9 | 153.1 | 153.2 | -73.22 | 161.1 | 5,217.5 | 248.8 | -45.6 | 294.46 | 0.845 Level 1 | | |
| 12,100.0 | 6,617.1 | 12,021.9 | 6,545.5 | 155.9 | 156.0 | -73.26 | 161.1 | 5,317.5 | 248.8 | -51.1 | 299.88 | 0.830 Level 1 | | |
| 12,200.0 | 6,616.5 | 12,121.9 | 6,545.0 | 158.7 | 158.8 | -73.29 | 161.1 | 5,417.5 | 248.8 | -56.5 | 305.30 | 0.815 Level 1 | | |
| 12,300.0 | 6,615.9 | 12,221.9 | 6,544.6 | 161.5 | 161.6 | -73.33 | 161.1 | 5,517.5 | 248.7 | -62.0 | 310.73 | 0.800 Level 1 | | |
| 12,400.0 | 6,615.3 | 12,321.9 | 6,544.2 | 164.3 | 164.4 | -73.36 | 161.1 | 5,617.5 | 248.7 | -67.5 | 316.16 | 0.787 Level 1 | | |
| 12,500.0 | 6,614.8 | 12,421.9 | 6,543.7 | 167.1 | 167.2 | -73.40 | 161.1 | 5,717.5 | 248.6 | -73.0 | 321.59 | 0.773 Level 1 | | |
| 12,600.0 | 6,614.2 | 12,521.9 | 6,543.3 | 169.9 | 170.0 | -73.43 | 161.1 | 5,817.5 | 248.6 | -78.4 | 327.02 | 0.760 Level 1 | | |
| 12,700.0 | 6,613.6 | 12,621.9 | 6,542.8 | 172.7 | 172.8 | -73.47 | 161.1 | 5,917.5 | 248.5 | -83.9 | 332.46 | 0.748 Level 1 | | |
| 12,800.0 | 6,613.0 | 12,721.9 | 6,542.4 | 175.5 | 175.6 | -73.50 | 161.1 | 6,017.5 | 248.5 | -89.4 | 337.90 | 0.735 Level 1 | | |
| 12,900.0 | 6,612.4 | 12,821.9 | 6,542.0 | 178.3 | 178.4 | -73.54 | 161.1 | 6,117.5 | 248.4 | -94.9 | 343.34 | 0.724 Level 1 | | |
| 13,000.0 | 6,611.8 | 12,921.9 | 6,541.5 | 181.1 | 181.2 | -73.57 | 161.1 | 6,217.5 | 248.4 | -100.4 | 348.79 | 0.712 Level 1 | | |
| 13,100.0 | 6,611.2 | 13,021.9 | 6,541.1 | 183.9 | 184.0 | -73.61 | 161.1 | 6,317.5 | 248.4 | -105.9 | 354.23 | 0.701 Level 1 | | |
| 13,200.0 | 6,610.6 | 13,121.9 | 6,540.7 | 186.7 | 186.8 | -73.64 | 161.1 | 6,417.5 | 248.3 | -111.4 | 359.68 | 0.690 Level 1 | | |
| 13,300.0 | 6,610.0 | 13,221.9 | 6,540.2 | 189.5 | 189.6 | -73.68 | 161.1 | 6,517.5 | 248.3 | -116.9 | 365.13 | 0.680 Level 1 | | |
| 13,400.0 | 6,609.4 | 13,321.9 | 6,539.8 | 192.3 | 192.4 | -73.71 | 161.1 | 6,617.5 | 248.2 | -122.4 | 370.58 | 0.670 Level 1 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-212 - Wellbore #1 - Plan #1 Extended (3-3-16) | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 0-MWD | | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 13,500.0 | 6,608.8 | 13,421.9 | 6,539.4 | 195.1 | 195.2 | -73.75 | 161.1 | 6,717.5 | 248.2 | -127.9 | 376.04 | 0.660 | Level 1 | |
| 13,600.0 | 6,608.2 | 13,521.9 | 6,538.9 | 197.9 | 198.0 | -73.78 | 161.1 | 6,817.5 | 248.1 | -133.4 | 381.50 | 0.650 | Level 1 | |
| 13,700.0 | 6,607.6 | 13,621.9 | 6,538.5 | 200.7 | 200.8 | -73.82 | 161.1 | 6,917.5 | 248.1 | -138.9 | 386.96 | 0.641 | Level 1 | |
| 13,800.0 | 6,607.0 | 13,721.9 | 6,538.0 | 203.5 | 203.6 | -73.85 | 161.1 | 7,017.5 | 248.0 | -144.4 | 392.42 | 0.632 | Level 1 | |
| 13,900.0 | 6,606.4 | 13,821.9 | 6,537.6 | 206.3 | 206.4 | -73.89 | 161.1 | 7,117.5 | 248.0 | -149.9 | 397.88 | 0.623 | Level 1 | |
| 14,000.0 | 6,605.9 | 13,921.9 | 6,537.2 | 209.1 | 209.2 | -73.92 | 161.1 | 7,217.5 | 248.0 | -155.4 | 403.35 | 0.615 | Level 1 | |
| 14,100.0 | 6,605.3 | 14,021.9 | 6,536.7 | 211.9 | 212.0 | -73.95 | 161.1 | 7,317.5 | 247.9 | -160.9 | 408.82 | 0.606 | Level 1 | |
| 14,200.0 | 6,604.7 | 14,121.9 | 6,536.3 | 214.7 | 214.8 | -73.99 | 161.1 | 7,417.5 | 247.9 | -166.4 | 414.29 | 0.598 | Level 1 | |
| 14,300.0 | 6,604.1 | 14,221.9 | 6,535.9 | 217.5 | 217.6 | -74.02 | 161.1 | 7,517.5 | 247.8 | -171.9 | 419.76 | 0.590 | Level 1 | |
| 14,400.0 | 6,603.5 | 14,321.9 | 6,535.4 | 220.3 | 220.4 | -74.06 | 161.1 | 7,617.5 | 247.8 | -177.4 | 425.23 | 0.583 | Level 1 | |
| 14,500.0 | 6,602.9 | 14,421.9 | 6,535.0 | 223.1 | 223.2 | -74.09 | 161.1 | 7,717.5 | 247.7 | -183.0 | 430.71 | 0.575 | Level 1 | |
| 14,600.0 | 6,602.3 | 14,521.9 | 6,534.6 | 225.9 | 226.0 | -74.13 | 161.1 | 7,817.5 | 247.7 | -188.5 | 436.19 | 0.568 | Level 1 | |
| 14,700.0 | 6,601.7 | 14,621.9 | 6,534.1 | 228.7 | 228.8 | -74.16 | 161.1 | 7,917.5 | 247.7 | -194.0 | 441.67 | 0.561 | Level 1 | |
| 14,800.0 | 6,601.1 | 14,721.9 | 6,533.7 | 231.5 | 231.6 | -74.20 | 161.1 | 8,017.5 | 247.6 | -199.5 | 447.15 | 0.554 | Level 1 | |
| 14,900.0 | 6,600.5 | 14,821.9 | 6,533.2 | 234.3 | 234.4 | -74.23 | 161.1 | 8,117.5 | 247.6 | -205.1 | 452.63 | 0.547 | Level 1 | |
| 15,000.0 | 6,599.9 | 14,921.9 | 6,532.8 | 237.1 | 237.2 | -74.27 | 161.1 | 8,217.5 | 247.5 | -210.6 | 458.12 | 0.540 | Level 1 | |
| 15,100.0 | 6,599.3 | 15,021.9 | 6,532.4 | 239.9 | 240.0 | -74.30 | 161.1 | 8,317.5 | 247.5 | -216.1 | 463.60 | 0.534 | Level 1 | |
| 15,200.0 | 6,598.7 | 15,121.9 | 6,531.9 | 242.7 | 242.8 | -74.34 | 161.1 | 8,417.5 | 247.4 | -221.7 | 469.09 | 0.527 | Level 1 | |
| 15,300.0 | 6,598.1 | 15,221.9 | 6,531.5 | 245.5 | 245.6 | -74.37 | 161.1 | 8,517.5 | 247.4 | -227.2 | 474.59 | 0.521 | Level 1 | |
| 15,400.0 | 6,597.5 | 15,321.9 | 6,531.1 | 248.3 | 248.4 | -74.41 | 161.1 | 8,617.5 | 247.4 | -232.7 | 480.08 | 0.515 | Level 1 | |
| 15,500.0 | 6,596.9 | 15,421.9 | 6,530.6 | 251.1 | 251.2 | -74.44 | 161.1 | 8,717.5 | 247.3 | -238.3 | 485.57 | 0.509 | Level 1 | |
| 15,600.0 | 6,596.4 | 15,521.9 | 6,530.2 | 253.9 | 254.0 | -74.48 | 161.1 | 8,817.5 | 247.3 | -243.8 | 491.07 | 0.504 | Level 1 | |
| 15,700.0 | 6,595.8 | 15,621.9 | 6,529.8 | 256.7 | 256.9 | -74.51 | 161.1 | 8,917.5 | 247.2 | -249.3 | 496.57 | 0.498 | Level 1 | |
| 15,800.0 | 6,595.2 | 15,721.9 | 6,529.3 | 259.5 | 259.7 | -74.55 | 161.1 | 9,017.5 | 247.2 | -254.9 | 502.07 | 0.492 | Level 1 | |
| 15,900.0 | 6,594.6 | 15,821.9 | 6,528.9 | 262.3 | 262.5 | -74.58 | 161.1 | 9,117.5 | 247.1 | -260.4 | 507.57 | 0.487 | Level 1 | |
| 16,000.0 | 6,594.0 | 15,921.9 | 6,528.4 | 265.1 | 265.3 | -74.62 | 161.1 | 9,217.5 | 247.1 | -266.0 | 513.08 | 0.482 | Level 1 | |
| 16,100.0 | 6,593.4 | 16,021.9 | 6,528.0 | 267.9 | 268.1 | -74.66 | 161.1 | 9,317.5 | 247.1 | -271.5 | 518.58 | 0.476 | Level 1 | |
| 16,200.0 | 6,592.8 | 16,121.9 | 6,527.6 | 270.7 | 270.9 | -74.69 | 161.1 | 9,417.5 | 247.0 | -277.1 | 524.09 | 0.471 | Level 1 | |
| 16,300.0 | 6,592.2 | 16,221.9 | 6,527.1 | 273.5 | 273.7 | -74.73 | 161.1 | 9,517.5 | 247.0 | -282.6 | 529.60 | 0.466 | Level 1 | |
| 16,327.4 | 6,592.0 | 16,249.3 | 6,527.0 | 274.3 | 274.4 | -74.73 | 161.1 | 9,544.9 | 247.0 | -284.1 | 531.11 | 0.465 | Level 1 | |
| 16,334.1 | 6,592.0 | 16,253.1 | 6,527.0 | 274.5 | 274.6 | -74.74 | 161.1 | 9,548.7 | 247.0 | -284.4 | 531.39 | 0.465 | Level 1, ES, SF | |

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|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| | | | | | | | | | | | | | | |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
| Survey Program: 6867-UNKNOWN | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 7,500.0 | 6,644.4 | 6,614.4 | 6,614.4 | 30.5 | 132.3 | -90.58 | 384.4 | 1,510.8 | 917.4 | 754.7 | 162.73 | 5.638 | | |
| 7,600.0 | 6,643.8 | 6,613.8 | 6,613.8 | 32.9 | 132.3 | -90.51 | 384.4 | 1,510.8 | 832.5 | 667.4 | 165.14 | 5.041 | | |
| 7,700.0 | 6,643.2 | 6,613.2 | 6,613.2 | 35.3 | 132.3 | -90.44 | 384.4 | 1,510.8 | 751.3 | 583.8 | 167.60 | 4.483 | | |
| 7,800.0 | 6,642.6 | 6,612.6 | 6,612.6 | 37.9 | 132.3 | -90.36 | 384.4 | 1,510.8 | 675.2 | 505.1 | 170.11 | 3.970 | | |
| 7,900.0 | 6,642.0 | 6,612.0 | 6,612.0 | 40.4 | 132.2 | -90.29 | 384.4 | 1,510.8 | 606.1 | 433.5 | 172.65 | 3.511 | | |
| 8,000.0 | 6,641.5 | 6,611.5 | 6,611.5 | 43.0 | 132.2 | -90.22 | 384.4 | 1,510.8 | 546.6 | 371.4 | 175.23 | 3.120 | | |
| 8,100.0 | 6,640.9 | 6,610.9 | 6,610.9 | 45.6 | 132.2 | -90.14 | 384.4 | 1,510.8 | 500.3 | 322.4 | 177.84 | 2.813 | | |
| 8,200.0 | 6,640.3 | 6,610.3 | 6,610.3 | 48.3 | 132.2 | -90.07 | 384.4 | 1,510.8 | 470.8 | 290.4 | 180.46 | 2.609 | | |
| 8,292.9 | 6,639.7 | 6,609.7 | 6,609.7 | 50.7 | 132.2 | -90.00 | 384.4 | 1,510.8 | 461.6 | 278.7 | 182.92 | 2.523 CC | | |
| 8,300.0 | 6,639.7 | 6,609.7 | 6,609.7 | 50.9 | 132.2 | -89.99 | 384.4 | 1,510.8 | 461.6 | 278.5 | 183.11 | 2.521 ES, SF | | |
| 8,400.0 | 6,639.1 | 6,609.1 | 6,609.1 | 53.6 | 132.2 | -89.92 | 384.4 | 1,510.8 | 473.9 | 288.1 | 185.77 | 2.551 | | |
| 8,500.0 | 6,638.5 | 6,608.5 | 6,608.5 | 56.3 | 132.2 | -89.85 | 384.4 | 1,510.8 | 505.9 | 317.5 | 188.44 | 2.685 | | |
| 8,600.0 | 6,637.9 | 6,607.9 | 6,607.9 | 59.0 | 132.2 | -89.77 | 384.4 | 1,510.8 | 554.4 | 363.3 | 191.12 | 2.901 | | |
| 8,700.0 | 6,637.3 | 6,607.3 | 6,607.3 | 61.7 | 132.1 | -89.70 | 384.4 | 1,510.8 | 615.5 | 421.7 | 193.82 | 3.176 | | |
| 8,800.0 | 6,636.7 | 6,606.7 | 6,606.7 | 64.4 | 132.1 | -89.63 | 384.4 | 1,510.8 | 685.7 | 489.2 | 196.52 | 3.489 | | |
| 8,900.0 | 6,636.1 | 6,606.1 | 6,606.1 | 67.1 | 132.1 | -89.55 | 384.4 | 1,510.8 | 762.7 | 563.4 | 199.23 | 3.828 | | |
| 9,000.0 | 6,635.5 | 6,605.5 | 6,605.5 | 69.8 | 132.1 | -89.48 | 384.4 | 1,510.8 | 844.5 | 642.5 | 201.94 | 4.182 | | |
| 9,100.0 | 6,634.9 | 6,604.9 | 6,604.9 | 72.6 | 132.1 | -89.41 | 384.4 | 1,510.8 | 929.8 | 725.1 | 204.67 | 4.543 | | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 6865-UNKNOWN | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.61 | 405.5 | 203.1 | 454.4 | | | | |
| 100.0 | 100.0 | 72.0 | 72.0 | 0.1 | 1.4 | 26.61 | 405.5 | 203.1 | 453.5 | 452.0 | 1.55 | 292.097 | |
| 200.0 | 200.0 | 172.0 | 172.0 | 0.3 | 3.4 | 26.61 | 405.5 | 203.1 | 453.5 | 449.7 | 3.78 | 120.059 | |
| 300.0 | 300.0 | 272.0 | 272.0 | 0.6 | 5.4 | 26.61 | 405.5 | 203.1 | 453.5 | 447.5 | 6.00 | 75.558 | |
| 400.0 | 400.0 | 372.0 | 372.0 | 0.8 | 7.4 | 26.61 | 405.5 | 203.1 | 453.5 | 445.3 | 8.23 | 55.125 | |
| 500.0 | 500.0 | 472.0 | 472.0 | 1.0 | 9.4 | 26.61 | 405.5 | 203.1 | 453.5 | 443.1 | 10.45 | 43.391 | |
| 600.0 | 600.0 | 572.0 | 572.0 | 1.2 | 11.4 | 26.61 | 405.5 | 203.1 | 453.5 | 440.8 | 12.68 | 35.775 | |
| 700.0 | 700.0 | 672.0 | 672.0 | 1.5 | 13.4 | 26.61 | 405.5 | 203.1 | 453.5 | 438.6 | 14.90 | 30.434 | |
| 800.0 | 800.0 | 772.0 | 772.0 | 1.7 | 15.4 | 26.61 | 405.5 | 203.1 | 453.5 | 436.4 | 17.13 | 26.481 | |
| 900.0 | 900.0 | 872.0 | 872.0 | 1.9 | 17.4 | 26.61 | 405.5 | 203.1 | 453.5 | 434.2 | 19.35 | 23.436 | |
| 1,000.0 | 1,000.0 | 972.0 | 972.0 | 2.1 | 19.4 | 26.61 | 405.5 | 203.1 | 453.5 | 431.9 | 21.58 | 21.019 | |
| 1,100.0 | 1,100.0 | 1,072.0 | 1,072.0 | 2.4 | 21.4 | 26.61 | 405.5 | 203.1 | 453.5 | 429.7 | 23.80 | 19.055 | |
| 1,200.0 | 1,200.0 | 1,172.0 | 1,172.0 | 2.6 | 23.4 | 26.61 | 405.5 | 203.1 | 453.5 | 427.5 | 26.02 | 17.426 | |
| 1,300.0 | 1,300.0 | 1,272.0 | 1,272.0 | 2.8 | 25.4 | 26.61 | 405.5 | 203.1 | 453.5 | 425.3 | 28.25 | 16.053 | |
| 1,400.0 | 1,400.0 | 1,372.0 | 1,372.0 | 3.0 | 27.4 | 26.61 | 405.5 | 203.1 | 453.5 | 423.0 | 30.47 | 14.881 | |
| 1,500.0 | 1,500.0 | 1,472.0 | 1,472.0 | 3.3 | 29.4 | 26.61 | 405.5 | 203.1 | 453.5 | 420.8 | 32.70 | 13.869 | |
| 1,600.0 | 1,600.0 | 1,572.0 | 1,572.0 | 3.5 | 31.4 | 26.61 | 405.5 | 203.1 | 453.5 | 418.6 | 34.92 | 12.985 | |
| 1,700.0 | 1,700.0 | 1,672.0 | 1,672.0 | 3.7 | 33.4 | 26.61 | 405.5 | 203.1 | 453.5 | 416.4 | 37.15 | 12.208 | |
| 1,800.0 | 1,800.0 | 1,772.0 | 1,772.0 | 3.9 | 35.4 | 26.61 | 405.5 | 203.1 | 453.5 | 414.1 | 39.37 | 11.518 | |
| 1,900.0 | 1,900.0 | 1,872.0 | 1,872.0 | 4.2 | 37.4 | 26.61 | 405.5 | 203.1 | 453.5 | 411.9 | 41.60 | 10.902 | |
| 2,000.0 | 2,000.0 | 1,972.0 | 1,972.0 | 4.4 | 39.4 | 26.61 | 405.5 | 203.1 | 453.5 | 409.7 | 43.82 | 10.349 CC | |
| 2,100.0 | 2,100.0 | 2,072.0 | 2,072.0 | 4.6 | 41.4 | 126.78 | 405.5 | 203.1 | 454.0 | 408.0 | 46.03 | 9.864 | |
| 2,200.0 | 2,200.0 | 2,172.0 | 2,172.0 | 4.8 | 43.4 | 127.03 | 405.5 | 203.1 | 455.6 | 407.4 | 48.21 | 9.449 | |
| 2,300.0 | 2,299.9 | 2,271.9 | 2,271.9 | 5.0 | 45.4 | 127.44 | 405.5 | 203.1 | 458.2 | 407.8 | 50.40 | 9.093 | |
| 2,400.0 | 2,399.7 | 2,371.7 | 2,371.7 | 5.2 | 47.4 | 128.02 | 405.5 | 203.1 | 462.0 | 409.4 | 52.57 | 8.787 | |
| 2,500.0 | 2,499.4 | 2,471.4 | 2,471.4 | 5.4 | 49.4 | 128.73 | 405.5 | 203.1 | 466.9 | 412.1 | 54.74 | 8.528 | |
| 2,600.0 | 2,598.9 | 2,570.9 | 2,570.9 | 5.6 | 51.4 | 129.59 | 405.5 | 203.1 | 472.9 | 416.0 | 56.90 | 8.311 | |
| 2,700.0 | 2,698.3 | 2,670.3 | 2,670.3 | 5.9 | 53.4 | 130.57 | 405.5 | 203.1 | 480.2 | 421.2 | 59.05 | 8.132 | |
| 2,800.0 | 2,797.4 | 2,769.4 | 2,769.4 | 6.1 | 55.4 | 131.66 | 405.5 | 203.1 | 488.9 | 427.7 | 61.19 | 7.989 | |
| 2,811.9 | 2,809.2 | 2,781.2 | 2,781.2 | 6.1 | 55.6 | 131.80 | 405.5 | 203.1 | 490.0 | 428.5 | 61.44 | 7.975 | |
| 2,900.0 | 2,896.4 | 2,868.4 | 2,868.4 | 6.4 | 57.4 | 132.86 | 405.5 | 203.1 | 498.4 | 435.0 | 63.38 | 7.864 | |
| 3,000.0 | 2,995.4 | 2,967.4 | 2,967.4 | 6.6 | 59.3 | 134.02 | 405.5 | 203.1 | 508.2 | 442.6 | 65.57 | 7.750 | |
| 3,100.0 | 3,094.4 | 3,066.4 | 3,066.4 | 6.9 | 61.3 | 135.14 | 405.5 | 203.1 | 518.1 | 450.4 | 67.77 | 7.645 | |
| 3,200.0 | 3,193.4 | 3,165.4 | 3,165.4 | 7.2 | 63.3 | 136.22 | 405.5 | 203.1 | 528.3 | 458.3 | 69.97 | 7.550 | |
| 3,300.0 | 3,292.4 | 3,264.4 | 3,264.4 | 7.5 | 65.3 | 137.25 | 405.5 | 203.1 | 538.6 | 466.5 | 72.17 | 7.463 | |
| 3,400.0 | 3,391.4 | 3,363.4 | 3,363.4 | 7.8 | 67.3 | 138.25 | 405.5 | 203.1 | 549.1 | 474.8 | 74.38 | 7.383 | |
| 3,500.0 | 3,490.4 | 3,462.4 | 3,462.4 | 8.1 | 69.2 | 139.20 | 405.5 | 203.1 | 559.8 | 483.2 | 76.58 | 7.310 | |
| 3,600.0 | 3,589.4 | 3,561.4 | 3,561.4 | 8.4 | 71.2 | 140.13 | 405.5 | 203.1 | 570.6 | 491.8 | 78.79 | 7.242 | |
| 3,700.0 | 3,688.4 | 3,660.4 | 3,660.4 | 8.7 | 73.2 | 141.02 | 405.5 | 203.1 | 581.6 | 500.6 | 80.99 | 7.181 | |
| 3,800.0 | 3,787.4 | 3,759.4 | 3,759.4 | 9.0 | 75.2 | 141.87 | 405.5 | 203.1 | 592.6 | 509.4 | 83.19 | 7.124 | |
| 3,900.0 | 3,886.4 | 3,858.4 | 3,858.4 | 9.3 | 77.2 | 142.70 | 405.5 | 203.1 | 603.9 | 518.5 | 85.40 | 7.071 | |
| 4,000.0 | 3,985.4 | 3,957.4 | 3,957.4 | 9.6 | 79.1 | 143.49 | 405.5 | 203.1 | 615.2 | 527.6 | 87.60 | 7.022 | |
| 4,100.0 | 4,084.4 | 4,056.4 | 4,056.4 | 9.9 | 81.1 | 144.26 | 405.5 | 203.1 | 626.6 | 536.8 | 89.81 | 6.978 | |
| 4,200.0 | 4,183.4 | 4,155.4 | 4,155.4 | 10.3 | 83.1 | 144.99 | 405.5 | 203.1 | 638.2 | 546.2 | 92.01 | 6.936 | |
| 4,300.0 | 4,282.4 | 4,254.4 | 4,254.4 | 10.6 | 85.1 | 145.71 | 405.5 | 203.1 | 649.8 | 555.6 | 94.21 | 6.898 | |
| 4,400.0 | 4,381.4 | 4,353.4 | 4,353.4 | 10.9 | 87.1 | 146.39 | 405.5 | 203.1 | 661.6 | 565.2 | 96.42 | 6.862 | |
| 4,500.0 | 4,480.4 | 4,452.4 | 4,452.4 | 11.2 | 89.0 | 147.06 | 405.5 | 203.1 | 673.4 | 574.8 | 98.62 | 6.829 | |
| 4,600.0 | 4,579.4 | 4,551.4 | 4,551.4 | 11.6 | 91.0 | 147.70 | 405.5 | 203.1 | 685.4 | 584.5 | 100.82 | 6.798 | |
| 4,700.0 | 4,678.4 | 4,650.4 | 4,650.4 | 11.9 | 93.0 | 148.31 | 405.5 | 203.1 | 697.4 | 594.4 | 103.02 | 6.769 | |
| 4,800.0 | 4,777.4 | 4,749.4 | 4,749.4 | 12.2 | 95.0 | 148.91 | 405.5 | 203.1 | 709.5 | 604.2 | 105.22 | 6.742 | |
| 4,900.0 | 4,876.4 | 4,848.4 | 4,848.4 | 12.6 | 97.0 | 149.49 | 405.5 | 203.1 | 721.6 | 614.2 | 107.43 | 6.717 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 6865-UNKNOWN | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 5,000.0 | 4,975.4 | 4,947.4 | 4,947.4 | 12.9 | 98.9 | 150.05 | 405.5 | 203.1 | 733.9 | 624.2 | 109.63 | 6.694 | |
| 5,100.0 | 5,074.4 | 5,046.4 | 5,046.4 | 13.2 | 100.9 | 150.59 | 405.5 | 203.1 | 746.2 | 634.3 | 111.83 | 6.672 | |
| 5,200.0 | 5,173.4 | 5,145.4 | 5,145.4 | 13.6 | 102.9 | 151.11 | 405.5 | 203.1 | 758.5 | 644.5 | 114.03 | 6.652 | |
| 5,300.0 | 5,272.3 | 5,244.3 | 5,244.3 | 13.9 | 104.9 | 151.62 | 405.5 | 203.1 | 771.0 | 654.7 | 116.23 | 6.633 | |
| 5,323.3 | 5,295.4 | 5,267.4 | 5,267.4 | 14.0 | 105.3 | 151.73 | 405.5 | 203.1 | 773.9 | 657.1 | 116.74 | 6.629 | |
| 5,400.0 | 5,371.5 | 5,343.5 | 5,343.5 | 14.2 | 106.9 | 152.15 | 405.5 | 203.1 | 782.5 | 663.8 | 118.71 | 6.592 | |
| 5,500.0 | 5,471.0 | 5,443.0 | 5,443.0 | 14.4 | 108.9 | 152.56 | 405.5 | 203.1 | 791.2 | 670.0 | 121.17 | 6.529 | |
| 5,600.0 | 5,570.8 | 5,542.8 | 5,542.8 | 14.6 | 110.9 | 152.82 | 405.5 | 203.1 | 796.7 | 673.2 | 123.54 | 6.449 | |
| 5,700.0 | 5,670.8 | 5,642.8 | 5,642.8 | 14.8 | 112.9 | 152.93 | 405.5 | 203.1 | 799.2 | 673.4 | 125.79 | 6.353 | |
| 5,729.2 | 5,700.0 | 5,672.0 | 5,672.0 | 14.9 | 113.4 | 52.85 | 405.5 | 203.1 | 799.3 | 671.4 | 127.87 | 6.251 | |
| 5,800.0 | 5,770.8 | 5,742.8 | 5,742.8 | 15.0 | 114.9 | 52.85 | 405.5 | 203.1 | 799.3 | 669.9 | 129.41 | 6.177 | |
| 5,900.0 | 5,870.8 | 5,842.8 | 5,842.8 | 15.1 | 116.9 | 52.85 | 405.5 | 203.1 | 799.3 | 667.7 | 131.59 | 6.074 | |
| 5,912.0 | 5,882.8 | 5,854.8 | 5,854.8 | 15.2 | 117.1 | 52.85 | 405.5 | 203.1 | 799.3 | 667.5 | 131.85 | 6.062 | |
| 5,950.0 | 5,920.7 | 5,892.7 | 5,892.7 | 15.2 | 117.9 | -37.22 | 405.5 | 203.1 | 798.6 | 667.4 | 131.13 | 6.090 | |
| 6,000.0 | 5,970.6 | 5,942.6 | 5,942.6 | 15.3 | 118.9 | -37.55 | 405.5 | 203.1 | 795.3 | 663.6 | 131.73 | 6.037 | |
| 6,050.0 | 6,020.0 | 5,992.0 | 5,992.0 | 15.3 | 119.8 | -38.15 | 405.5 | 203.1 | 789.4 | 657.5 | 131.99 | 5.981 | |
| 6,100.0 | 6,068.9 | 6,040.9 | 6,040.9 | 15.3 | 120.8 | -39.02 | 405.5 | 203.1 | 781.1 | 649.2 | 131.93 | 5.921 | |
| 6,150.0 | 6,116.9 | 6,088.9 | 6,088.9 | 15.3 | 121.8 | -40.19 | 405.5 | 203.1 | 770.3 | 638.7 | 131.62 | 5.853 | |
| 6,200.0 | 6,164.0 | 6,136.0 | 6,136.0 | 15.3 | 122.7 | -41.66 | 405.5 | 203.1 | 757.2 | 626.1 | 131.15 | 5.774 | |
| 6,250.0 | 6,209.8 | 6,181.8 | 6,181.8 | 15.3 | 123.6 | -43.46 | 405.5 | 203.1 | 742.0 | 611.4 | 130.61 | 5.681 | |
| 6,300.0 | 6,254.3 | 6,226.3 | 6,226.3 | 15.2 | 124.5 | -45.61 | 405.5 | 203.1 | 724.8 | 594.6 | 130.16 | 5.568 | |
| 6,350.0 | 6,297.2 | 6,269.2 | 6,269.2 | 15.2 | 125.4 | -48.13 | 405.5 | 203.1 | 705.8 | 575.9 | 129.96 | 5.431 | |
| 6,400.0 | 6,338.2 | 6,310.2 | 6,310.2 | 15.2 | 126.2 | -51.02 | 405.5 | 203.1 | 685.3 | 555.2 | 130.16 | 5.265 | |
| 6,450.0 | 6,377.4 | 6,349.4 | 6,349.4 | 15.3 | 127.0 | -54.28 | 405.5 | 203.1 | 663.6 | 532.7 | 130.90 | 5.069 | |
| 6,500.0 | 6,414.4 | 6,386.4 | 6,386.4 | 15.3 | 127.7 | -57.89 | 405.5 | 203.1 | 641.0 | 508.7 | 132.28 | 4.846 | |
| 6,550.0 | 6,449.1 | 6,421.1 | 6,421.1 | 15.5 | 128.4 | -61.79 | 405.5 | 203.1 | 617.9 | 483.7 | 134.26 | 4.603 | |
| 6,600.0 | 6,481.5 | 6,453.5 | 6,453.5 | 15.6 | 129.1 | -65.89 | 405.5 | 203.1 | 594.9 | 458.1 | 136.73 | 4.351 | |
| 6,650.0 | 6,511.2 | 6,483.2 | 6,483.2 | 15.9 | 129.7 | -70.09 | 405.5 | 203.1 | 572.3 | 432.8 | 139.47 | 4.103 | |
| 6,700.0 | 6,538.3 | 6,510.3 | 6,510.3 | 16.2 | 130.2 | -74.23 | 405.5 | 203.1 | 550.9 | 408.7 | 142.22 | 3.873 | |
| 6,750.0 | 6,562.5 | 6,534.5 | 6,534.5 | 16.6 | 130.7 | -78.16 | 405.5 | 203.1 | 531.2 | 386.4 | 144.75 | 3.670 | |
| 6,800.0 | 6,583.9 | 6,555.9 | 6,555.9 | 17.1 | 131.1 | -81.73 | 405.5 | 203.1 | 514.0 | 367.1 | 146.91 | 3.499 | |
| 6,850.0 | 6,602.2 | 6,574.2 | 6,574.2 | 17.7 | 131.5 | -84.82 | 405.5 | 203.1 | 499.9 | 351.2 | 148.65 | 3.363 | |
| 6,900.0 | 6,617.5 | 6,589.5 | 6,589.5 | 18.4 | 131.8 | -87.32 | 405.5 | 203.1 | 489.7 | 339.6 | 150.03 | 3.264 | |
| 6,950.0 | 6,629.6 | 6,601.6 | 6,601.6 | 19.2 | 132.0 | -89.15 | 405.5 | 203.1 | 483.9 | 332.7 | 151.16 | 3.201 | |
| 6,984.6 | 6,636.1 | 6,608.1 | 6,608.1 | 19.7 | 132.2 | -90.00 | 405.5 | 203.1 | 482.7 | 330.8 | 151.88 | 3.178 | |
| 7,000.0 | 6,638.5 | 6,610.5 | 6,610.5 | 20.0 | 132.2 | -90.26 | 405.5 | 203.1 | 482.9 | 330.7 | 152.18 | 3.173 ES, SF | |
| 7,050.0 | 6,644.2 | 6,616.2 | 6,616.2 | 20.8 | 132.3 | -90.62 | 405.5 | 203.1 | 487.0 | 333.9 | 153.16 | 3.180 | |
| 7,100.0 | 6,646.6 | 6,618.6 | 6,618.6 | 21.8 | 132.4 | -90.21 | 405.5 | 203.1 | 496.1 | 342.0 | 154.14 | 3.219 | |
| 7,116.5 | 6,646.7 | 6,618.7 | 6,618.7 | 22.1 | 132.4 | -89.91 | 405.5 | 203.1 | 500.2 | 345.8 | 154.46 | 3.239 | |
| 7,200.0 | 6,646.2 | 6,618.2 | 6,618.2 | 23.7 | 132.4 | -89.85 | 405.5 | 203.1 | 528.3 | 372.2 | 156.10 | 3.384 | |
| 7,300.0 | 6,645.6 | 6,617.6 | 6,617.6 | 25.9 | 132.4 | -89.78 | 405.5 | 203.1 | 576.3 | 418.0 | 158.22 | 3.642 | |
| 7,400.0 | 6,645.0 | 6,617.0 | 6,617.0 | 28.1 | 132.3 | -89.71 | 405.5 | 203.1 | 636.4 | 476.0 | 160.45 | 3.966 | |
| 7,500.0 | 6,644.4 | 6,616.4 | 6,616.4 | 30.5 | 132.3 | -89.64 | 405.5 | 203.1 | 705.7 | 542.9 | 162.78 | 4.335 | |
| 7,600.0 | 6,643.8 | 6,615.8 | 6,615.8 | 32.9 | 132.3 | -89.57 | 405.5 | 203.1 | 781.6 | 616.5 | 165.18 | 4.732 | |
| 7,700.0 | 6,643.2 | 6,615.2 | 6,615.2 | 35.3 | 132.3 | -89.50 | 405.5 | 203.1 | 862.5 | 694.9 | 167.64 | 5.145 | |
| 7,800.0 | 6,642.6 | 6,614.6 | 6,614.6 | 37.9 | 132.3 | -89.43 | 405.5 | 203.1 | 947.0 | 776.9 | 170.14 | 5.566 | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design Existing Wells Pad Sec.26-T5N-R64W - Monfort Kuner B 26-7 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Survey Program: 7312-UNKNOWN | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 8,800.0 | 6,636.7 | 6,602.7 | 6,602.7 | 64.4 | 132.1 | -90.57 | 411.8 | 2,838.5 | 955.2 | 758.8 | 196.43 | 4.863 | | |
| 8,900.0 | 6,636.1 | 6,602.1 | 6,602.1 | 67.1 | 132.0 | -90.50 | 411.8 | 2,838.5 | 870.8 | 671.7 | 199.15 | 4.373 | | |
| 9,000.0 | 6,635.5 | 6,601.5 | 6,601.5 | 69.8 | 132.0 | -90.43 | 411.8 | 2,838.5 | 790.1 | 588.2 | 201.87 | 3.914 | | |
| 9,100.0 | 6,634.9 | 6,600.9 | 6,600.9 | 72.6 | 132.0 | -90.36 | 411.8 | 2,838.5 | 714.2 | 509.6 | 204.59 | 3.491 | | |
| 9,200.0 | 6,634.3 | 6,600.3 | 6,600.3 | 75.3 | 132.0 | -90.29 | 411.8 | 2,838.5 | 645.0 | 437.7 | 207.32 | 3.111 | | |
| 9,300.0 | 6,633.7 | 6,599.7 | 6,599.7 | 78.1 | 132.0 | -90.22 | 411.8 | 2,838.5 | 584.7 | 374.7 | 210.06 | 2.784 | | |
| 9,400.0 | 6,633.1 | 6,599.1 | 6,599.1 | 80.8 | 132.0 | -90.15 | 411.8 | 2,838.5 | 536.5 | 323.7 | 212.80 | 2.521 | | |
| 9,500.0 | 6,632.6 | 6,598.6 | 6,598.6 | 83.6 | 132.0 | -90.08 | 411.8 | 2,838.5 | 503.7 | 288.1 | 215.54 | 2.337 | | |
| 9,600.0 | 6,632.0 | 6,598.0 | 6,598.0 | 86.3 | 132.0 | -90.01 | 411.8 | 2,838.5 | 489.5 | 271.2 | 218.29 | 2.242 | | |
| 9,620.6 | 6,631.8 | 6,597.8 | 6,597.8 | 86.9 | 132.0 | -90.00 | 411.8 | 2,838.5 | 489.0 | 270.2 | 218.86 | 2.234 | CC, ES, SF | |
| 9,700.0 | 6,631.4 | 6,597.4 | 6,597.4 | 89.1 | 131.9 | -89.94 | 411.8 | 2,838.5 | 495.4 | 274.4 | 221.04 | 2.241 | | |
| 9,800.0 | 6,630.8 | 6,596.8 | 6,596.8 | 91.9 | 131.9 | -89.88 | 411.8 | 2,838.5 | 520.9 | 297.1 | 223.79 | 2.328 | | |
| 9,900.0 | 6,630.2 | 6,596.2 | 6,596.2 | 94.6 | 131.9 | -89.81 | 411.8 | 2,838.5 | 563.2 | 336.7 | 226.55 | 2.486 | | |
| 10,000.0 | 6,629.6 | 6,595.6 | 6,595.6 | 97.4 | 131.9 | -89.74 | 411.8 | 2,838.5 | 619.0 | 389.6 | 229.30 | 2.699 | | |
| 10,100.0 | 6,629.0 | 6,595.0 | 6,595.0 | 100.2 | 131.9 | -89.67 | 411.8 | 2,838.5 | 684.8 | 452.8 | 232.06 | 2.951 | | |
| 10,200.0 | 6,628.4 | 6,594.4 | 6,594.4 | 102.9 | 131.9 | -89.60 | 411.8 | 2,838.5 | 758.2 | 523.4 | 234.82 | 3.229 | | |
| 10,300.0 | 6,627.8 | 6,593.8 | 6,593.8 | 105.7 | 131.9 | -89.53 | 411.8 | 2,838.5 | 837.1 | 599.5 | 237.59 | 3.523 | | |
| 10,400.0 | 6,627.2 | 6,593.2 | 6,593.2 | 108.5 | 131.9 | -89.46 | 411.8 | 2,838.5 | 920.1 | 679.8 | 240.35 | 3.828 | | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design Existing Wells Pad Sec.26-T5N-R64W - Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------|---------|
| Survey Program: 100-NS-GYRO-MS | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 10,000.0 | 6,629.6 | 6,650.1 | 6,649.0 | 97.4 | 13.4 | -97.82 | 370.9 | 4,076.3 | 969.9 | 860.1 | 109.86 | 8.828 | | |
| 10,100.0 | 6,629.0 | 6,642.8 | 6,641.8 | 100.2 | 13.4 | -96.91 | 370.9 | 4,076.7 | 882.7 | 769.9 | 112.81 | 7.824 | | |
| 10,200.0 | 6,628.4 | 6,635.6 | 6,634.6 | 102.9 | 13.4 | -96.00 | 370.9 | 4,077.2 | 798.3 | 682.6 | 115.74 | 6.898 | | |
| 10,300.0 | 6,627.8 | 6,628.4 | 6,627.3 | 105.7 | 13.4 | -95.08 | 370.8 | 4,077.7 | 718.0 | 599.3 | 118.65 | 6.051 | | |
| 10,400.0 | 6,627.2 | 6,621.1 | 6,620.1 | 108.5 | 13.4 | -94.17 | 370.8 | 4,078.2 | 643.0 | 521.5 | 121.55 | 5.290 | | |
| 10,500.0 | 6,626.6 | 6,613.9 | 6,612.9 | 111.3 | 13.3 | -93.25 | 370.8 | 4,078.7 | 575.7 | 451.3 | 124.43 | 4.627 | | |
| | | | | | | | | | | | | | | |
| 10,600.0 | 6,626.0 | 6,606.7 | 6,605.7 | 114.1 | 13.3 | -92.33 | 370.8 | 4,079.1 | 518.9 | 391.6 | 127.28 | 4.077 | | |
| 10,700.0 | 6,625.4 | 6,599.4 | 6,598.4 | 116.8 | 13.3 | -91.40 | 370.8 | 4,079.6 | 476.4 | 346.3 | 130.10 | 3.662 | | |
| 10,800.0 | 6,624.8 | 6,592.2 | 6,591.2 | 119.6 | 13.3 | -90.48 | 370.8 | 4,080.1 | 452.3 | 319.4 | 132.90 | 3.403 | | |
| 10,862.5 | 6,624.5 | 6,587.7 | 6,586.7 | 121.4 | 13.3 | -89.90 | 370.8 | 4,080.4 | 448.0 | 313.3 | 134.64 | 3.327 CC, ES | | |
| 10,900.0 | 6,624.2 | 6,584.9 | 6,584.0 | 122.4 | 13.3 | -89.56 | 370.8 | 4,080.6 | 449.5 | 313.9 | 135.67 | 3.313 SF | | |
| | | | | | | | | | | | | | | |
| 11,000.0 | 6,623.7 | 6,577.7 | 6,576.8 | 125.2 | 13.3 | -88.63 | 370.8 | 4,081.1 | 468.5 | 330.1 | 138.40 | 3.385 | | |
| 11,100.0 | 6,623.1 | 6,570.5 | 6,569.6 | 128.0 | 13.2 | -87.71 | 370.7 | 4,081.6 | 506.7 | 365.6 | 141.11 | 3.591 | | |
| 11,200.0 | 6,622.5 | 6,563.2 | 6,562.3 | 130.8 | 13.2 | -86.79 | 370.7 | 4,082.0 | 560.3 | 416.5 | 143.77 | 3.897 | | |
| 11,300.0 | 6,621.9 | 6,556.0 | 6,555.1 | 133.6 | 13.2 | -85.87 | 370.7 | 4,082.5 | 625.3 | 478.9 | 146.40 | 4.271 | | |
| 11,400.0 | 6,621.3 | 6,548.8 | 6,547.9 | 136.3 | 13.2 | -84.95 | 370.7 | 4,083.0 | 698.6 | 549.6 | 148.99 | 4.689 | | |
| | | | | | | | | | | | | | | |
| 11,500.0 | 6,620.7 | 6,541.5 | 6,540.7 | 139.1 | 13.2 | -84.04 | 370.7 | 4,083.5 | 777.8 | 626.2 | 151.53 | 5.133 | | |
| 11,600.0 | 6,620.1 | 6,535.0 | 6,534.2 | 141.9 | 13.1 | -83.22 | 370.7 | 4,083.9 | 861.2 | 707.1 | 154.06 | 5.590 | | |
| 11,700.0 | 6,619.5 | 6,527.9 | 6,527.0 | 144.7 | 13.1 | -82.32 | 370.7 | 4,084.4 | 947.8 | 791.3 | 156.53 | 6.055 | | |

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|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Survey Program: 181-Reference | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 32-25 - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 14,000.0 | 6,605.9 | 6,941.5 | 6,593.1 | 209.1 | 37.9 | -92.70 | 393.9 | 8,056.4 | 962.0 | 717.5 | 244.49 | 3.935 | | |
| 14,100.0 | 6,605.3 | 6,938.0 | 6,589.6 | 211.9 | 37.9 | -92.28 | 393.8 | 8,056.5 | 876.2 | 628.9 | 247.35 | 3.542 | | |
| 14,200.0 | 6,604.7 | 6,934.5 | 6,586.1 | 214.7 | 37.9 | -91.85 | 393.7 | 8,056.6 | 793.7 | 543.5 | 250.20 | 3.172 | | |
| 14,300.0 | 6,604.1 | 6,931.1 | 6,582.6 | 217.5 | 37.9 | -91.43 | 393.7 | 8,056.7 | 715.7 | 462.7 | 253.04 | 2.828 | | |
| 14,400.0 | 6,603.5 | 6,927.6 | 6,579.2 | 220.3 | 37.9 | -91.01 | 393.6 | 8,056.8 | 643.8 | 387.9 | 255.87 | 2.516 | | |
| 14,500.0 | 6,602.9 | 6,924.2 | 6,575.8 | 223.1 | 37.9 | -90.60 | 393.6 | 8,056.9 | 580.2 | 321.5 | 258.69 | 2.243 | | |
| 14,600.0 | 6,602.3 | 6,920.8 | 6,572.3 | 225.9 | 37.9 | -90.18 | 393.5 | 8,057.0 | 528.0 | 266.5 | 261.50 | 2.019 | | |
| 14,700.0 | 6,601.7 | 6,917.4 | 6,569.0 | 228.7 | 37.9 | -89.77 | 393.5 | 8,057.1 | 490.9 | 226.6 | 264.29 | 1.857 | | |
| 14,800.0 | 6,601.1 | 6,914.0 | 6,565.6 | 231.5 | 37.9 | -89.35 | 393.4 | 8,057.2 | 472.3 | 205.2 | 267.07 | 1.769 | | |
| 14,839.5 | 6,600.9 | 6,912.6 | 6,564.2 | 232.6 | 37.9 | -89.19 | 393.4 | 8,057.3 | 470.7 | 202.5 | 268.17 | 1.755 CC, ES, SF | | |
| 14,900.0 | 6,600.5 | 6,910.6 | 6,562.2 | 234.3 | 37.9 | -88.94 | 393.4 | 8,057.3 | 474.5 | 204.7 | 269.84 | 1.759 | | |
| 15,000.0 | 6,599.9 | 6,907.2 | 6,558.9 | 237.1 | 37.9 | -88.54 | 393.3 | 8,057.4 | 497.2 | 224.6 | 272.59 | 1.824 | | |
| 15,100.0 | 6,599.3 | 6,903.9 | 6,555.5 | 239.9 | 37.9 | -88.13 | 393.3 | 8,057.5 | 537.9 | 262.5 | 275.33 | 1.953 | | |
| 15,200.0 | 6,598.7 | 6,900.6 | 6,552.2 | 242.7 | 37.9 | -87.73 | 393.2 | 8,057.6 | 592.7 | 314.7 | 278.06 | 2.132 | | |
| 15,300.0 | 6,598.1 | 6,897.3 | 6,548.9 | 245.5 | 37.9 | -87.33 | 393.2 | 8,057.7 | 658.3 | 377.5 | 280.78 | 2.344 | | |
| 15,400.0 | 6,597.5 | 6,894.0 | 6,545.6 | 248.3 | 37.9 | -86.93 | 393.2 | 8,057.8 | 731.6 | 448.2 | 283.48 | 2.581 | | |
| 15,500.0 | 6,596.9 | 6,890.7 | 6,542.3 | 251.1 | 37.9 | -86.53 | 393.1 | 8,057.9 | 810.7 | 524.5 | 286.17 | 2.833 | | |
| 15,600.0 | 6,596.4 | 6,887.5 | 6,539.1 | 253.9 | 37.9 | -86.14 | 393.1 | 8,058.0 | 894.0 | 605.1 | 288.84 | 3.095 | | |
| 15,700.0 | 6,595.8 | 6,884.2 | 6,535.9 | 256.7 | 37.9 | -85.74 | 393.0 | 8,058.1 | 980.4 | 688.9 | 291.50 | 3.363 | | |

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|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Survey Program: 92-Reference | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 42-25 - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 15,300.0 | 6,598.1 | 6,636.0 | 6,549.0 | 245.5 | 20.0 | -88.21 | 405.5 | 9,367.8 | 977.7 | 716.0 | 261.63 | 3.737 | | |
| 15,400.0 | 6,597.5 | 6,637.2 | 6,550.3 | 248.3 | 20.0 | -88.36 | 405.5 | 9,367.8 | 892.1 | 627.6 | 264.46 | 3.373 | | |
| 15,500.0 | 6,596.9 | 6,638.6 | 6,551.6 | 251.1 | 20.0 | -88.52 | 405.5 | 9,367.8 | 809.8 | 542.5 | 267.28 | 3.030 | | |
| 15,600.0 | 6,596.4 | 6,640.0 | 6,553.1 | 253.9 | 20.0 | -88.69 | 405.5 | 9,367.8 | 732.0 | 461.9 | 270.11 | 2.710 | | |
| 15,700.0 | 6,595.8 | 6,641.5 | 6,554.6 | 256.7 | 20.0 | -88.87 | 405.5 | 9,367.9 | 660.1 | 387.2 | 272.94 | 2.419 | | |
| 15,800.0 | 6,595.2 | 6,643.2 | 6,556.3 | 259.5 | 20.0 | -89.07 | 405.5 | 9,367.9 | 596.4 | 320.7 | 275.76 | 2.163 | | |
| 15,900.0 | 6,594.6 | 6,645.0 | 6,558.1 | 262.3 | 20.0 | -89.28 | 405.5 | 9,368.0 | 543.8 | 265.2 | 278.59 | 1.952 | | |
| 16,000.0 | 6,594.0 | 6,647.0 | 6,560.0 | 265.1 | 20.0 | -89.52 | 405.5 | 9,368.0 | 505.6 | 224.2 | 281.41 | 1.797 | | |
| 16,100.0 | 6,593.4 | 6,649.1 | 6,562.2 | 267.9 | 20.0 | -89.77 | 405.5 | 9,368.1 | 485.4 | 201.1 | 284.23 | 1.708 | | |
| 16,150.3 | 6,593.1 | 6,650.2 | 6,563.3 | 269.4 | 20.0 | -89.91 | 405.5 | 9,368.1 | 482.7 | 197.1 | 285.65 | 1.690 CC, ES, SF | | |
| 16,200.0 | 6,592.8 | 6,651.4 | 6,564.5 | 270.7 | 20.0 | -90.05 | 405.5 | 9,368.2 | 485.3 | 198.2 | 287.04 | 1.691 | | |
| 16,300.0 | 6,592.2 | 6,654.0 | 6,567.1 | 273.5 | 20.0 | -90.35 | 405.5 | 9,368.2 | 505.4 | 215.5 | 289.85 | 1.744 | | |
| 16,334.1 | 6,592.0 | 6,655.0 | 6,568.0 | 274.5 | 20.0 | -90.47 | 405.5 | 9,368.3 | 516.5 | 225.7 | 290.81 | 1.776 | | |

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|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|---------------------------|--------------------|--------|
| Survey Program: 92-Reference | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 6-4-25 - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 14,600.0 | 6,602.3 | 6,871.3 | 6,575.4 | 225.9 | 32.7 | 95.28 | -171.4 | 8,757.7 | 944.6 | 695.4 | 249.22 | 3.790 | | |
| 14,700.0 | 6,601.7 | 6,870.3 | 6,574.5 | 228.7 | 32.7 | 94.70 | -171.3 | 8,757.7 | 845.2 | 592.9 | 252.24 | 3.351 | | |
| 14,800.0 | 6,601.1 | 6,869.4 | 6,573.5 | 231.5 | 32.7 | 94.11 | -171.3 | 8,757.7 | 745.9 | 490.7 | 255.24 | 2.922 | | |
| 14,900.0 | 6,600.5 | 6,868.4 | 6,572.5 | 234.3 | 32.7 | 93.52 | -171.3 | 8,757.7 | 646.8 | 388.6 | 258.22 | 2.505 | | |
| 15,000.0 | 6,599.9 | 6,867.4 | 6,571.5 | 237.1 | 32.7 | 92.93 | -171.3 | 8,757.7 | 548.1 | 286.9 | 261.18 | 2.098 | | |
| 15,100.0 | 6,599.3 | 6,866.4 | 6,570.5 | 239.9 | 32.7 | 92.32 | -171.3 | 8,757.7 | 449.9 | 185.8 | 264.12 | 1.703 | | |
| 15,200.0 | 6,598.7 | 6,865.4 | 6,569.5 | 242.7 | 32.7 | 91.71 | -171.3 | 8,757.7 | 352.7 | 85.7 | 267.03 | 1.321 Level 3 | | |
| 15,300.0 | 6,598.1 | 6,864.0 | 6,568.1 | 245.5 | 32.7 | 90.86 | -171.3 | 8,757.7 | 257.7 | -12.2 | 269.95 | 0.955 Level 1 | | |
| 15,400.0 | 6,597.5 | 6,864.0 | 6,568.1 | 248.3 | 32.7 | 90.86 | -171.3 | 8,757.7 | 168.7 | -104.1 | 272.75 | 0.618 Level 1 | | |
| 15,500.0 | 6,596.9 | 6,862.3 | 6,566.4 | 251.1 | 32.7 | 89.84 | -171.3 | 8,757.8 | 102.2 | -173.4 | 275.62 | 0.371 Level 1 | | |
| 15,540.0 | 6,596.7 | 6,861.9 | 6,566.0 | 252.2 | 32.7 | 89.58 | -171.3 | 8,757.8 | 94.1 | -182.7 | 276.74 | 0.340 Level 1, CC, ES, SF | | |
| 15,600.0 | 6,596.4 | 6,861.3 | 6,565.4 | 253.9 | 32.7 | 89.19 | -171.3 | 8,757.8 | 111.6 | -166.8 | 278.42 | 0.401 Level 1 | | |
| 15,700.0 | 6,595.8 | 6,860.2 | 6,564.3 | 256.7 | 32.7 | 88.54 | -171.3 | 8,757.8 | 185.6 | -95.6 | 281.19 | 0.660 Level 1 | | |
| 15,800.0 | 6,595.2 | 6,859.1 | 6,563.2 | 259.5 | 32.7 | 87.88 | -171.3 | 8,757.8 | 276.5 | -7.4 | 283.92 | 0.974 Level 1 | | |
| 15,900.0 | 6,594.6 | 6,858.0 | 6,562.1 | 262.3 | 32.7 | 87.20 | -171.3 | 8,757.8 | 372.1 | 85.5 | 286.61 | 1.298 Level 3 | | |
| 16,000.0 | 6,594.0 | 6,856.9 | 6,561.0 | 265.1 | 32.7 | 86.52 | -171.2 | 8,757.8 | 469.5 | 180.3 | 289.26 | 1.623 | | |
| 16,100.0 | 6,593.4 | 6,855.7 | 6,559.8 | 267.9 | 32.7 | 85.82 | -171.2 | 8,757.8 | 567.8 | 276.0 | 291.86 | 1.946 | | |
| 16,200.0 | 6,592.8 | 6,854.5 | 6,558.7 | 270.7 | 32.7 | 85.12 | -171.2 | 8,757.8 | 666.7 | 372.2 | 294.42 | 2.264 | | |
| 16,300.0 | 6,592.2 | 6,853.4 | 6,557.5 | 273.5 | 32.7 | 84.40 | -171.2 | 8,757.8 | 765.8 | 468.9 | 296.92 | 2.579 | | |
| 16,334.1 | 6,592.0 | 6,853.0 | 6,557.1 | 274.5 | 32.7 | 84.15 | -171.2 | 8,757.8 | 799.6 | 501.8 | 297.76 | 2.685 | | |

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|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| Company: | PETROLEUM DEVELOPMENT CORP DJ Basin | Local Co-ordinate Reference: | Well Bihain 26G-312 |
| Project: | SEC.26-T5N-R64W | TVD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Reference Site: | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | MD Reference: | WELL @ 4627.0ft (RKB - 23') |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bihain 26G-312 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | US_EDM |
| Reference Design: | Plan #1 Extension (3-4-16) | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 4627.0ft (RKB - 23')

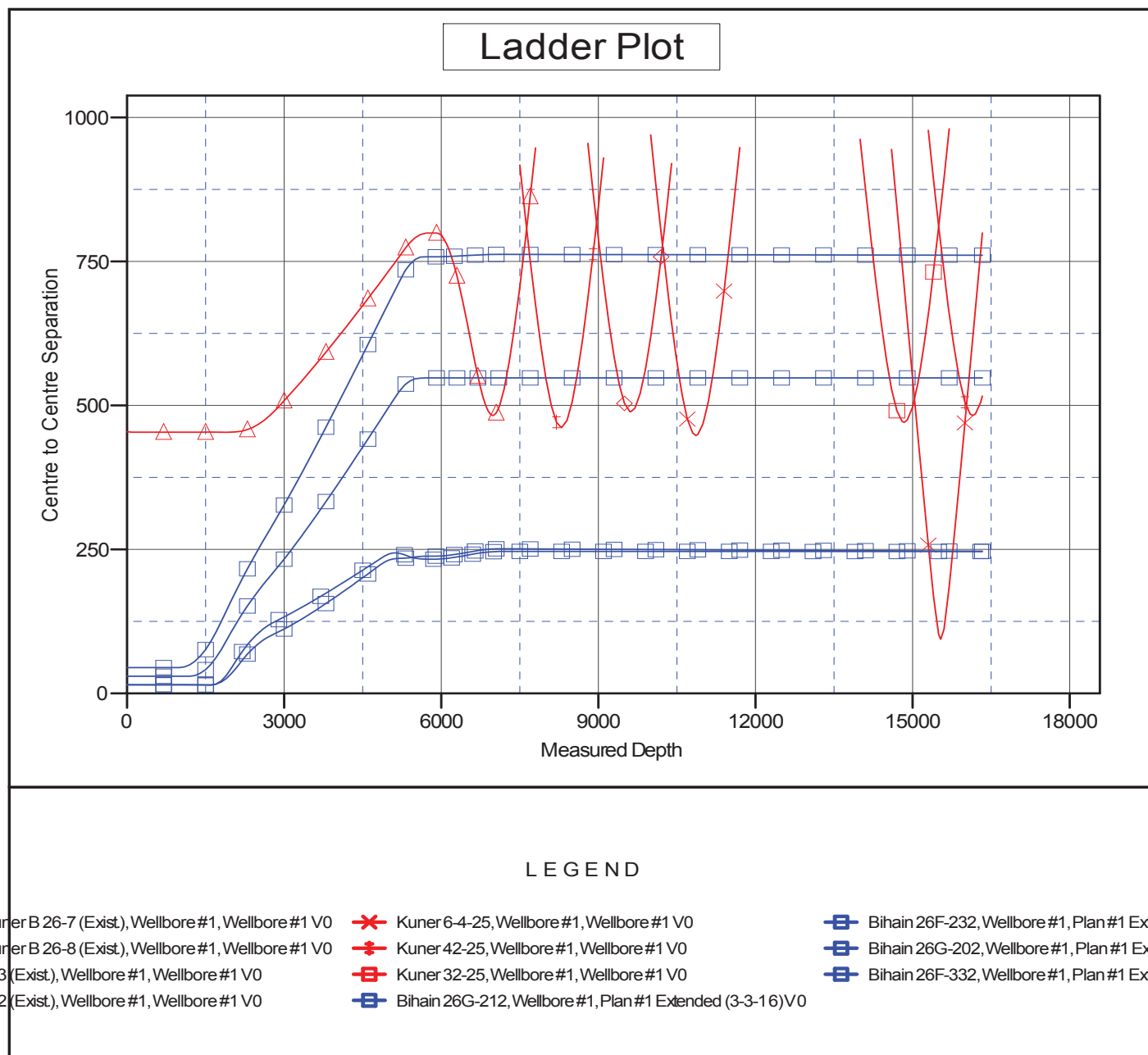
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: Bihain 26G-312

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.63°



Coordinates are relative to: Bihain 26G-312
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.63°

