

# PETROLEUM DEVELOPMENT CORP DJ Basin

Well Name: **Bihain 26F-232**

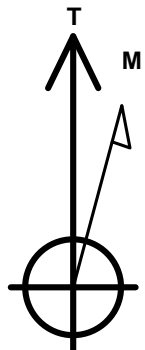
Surface Location: Bihain 5N64W26GK Pad Sec.26-T5N-R64W  
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone  
Ground Elevation: 4604.0

| +N/-S | +E/-W | Northing   | Easting    | Latitude  | Longitude   | Slot |
|-------|-------|------------|------------|-----------|-------------|------|
| 0.0   | 0.0   | 1379552.95 | 3271716.10 | 40.371173 | -104.524790 |      |

RKB - 23' WELL @ 4627.0ft (RKB - 23')

## DESIGN TARGET DETAILS

| Name                           | TVD    | +N/-S | +E/-W  | Shape |
|--------------------------------|--------|-------|--------|-------|
| SHL 2350'FNL & 450'FWL, Sec.26 | 1.0    | 0.0   | 0.0    | Point |
| BHL 1680'FNL & 500'FEL, Sec.25 | 6527.0 | 652.2 | 9576.1 | Point |



Azimuths to True North  
Magnetic North: 8.14°

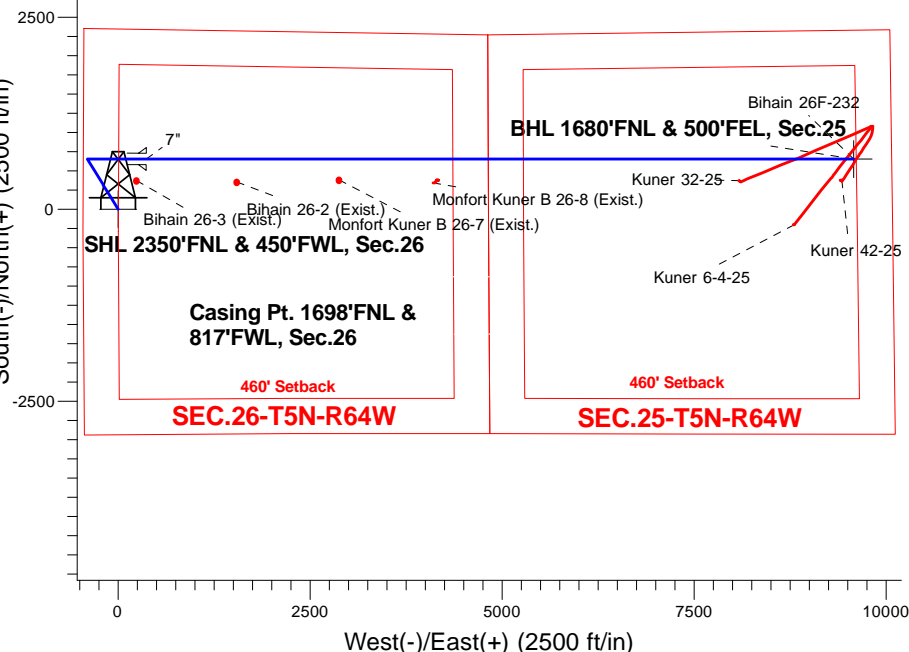
Magnetic Field  
Strength: 52680.9snT  
Dip Angle: 66.91°  
Date: 11/2/2015  
Model: IGRF2010

Bihain 5N64W26GK Pad Sec.26-T5N-R64W  
Bihain 26F-232  
Plan #1 Extension (3-3-16)  
11:47, March 09 2016

## ANNOTATIONS

| TVD    | MD      | Annotation                     |
|--------|---------|--------------------------------|
| 1000.0 | 1000.0  | KOP - Start Build 1.50         |
| 5056.6 | 5122.6  | Start Drop -2.00               |
| 5803.3 | 5872.6  | KOP #2 - Start Build 7.50      |
| 6567.2 | 7075.9  | Start 9208.9 hold at 7075.9 MD |
| 6527.0 | 16284.8 | TD at 16284.8                  |

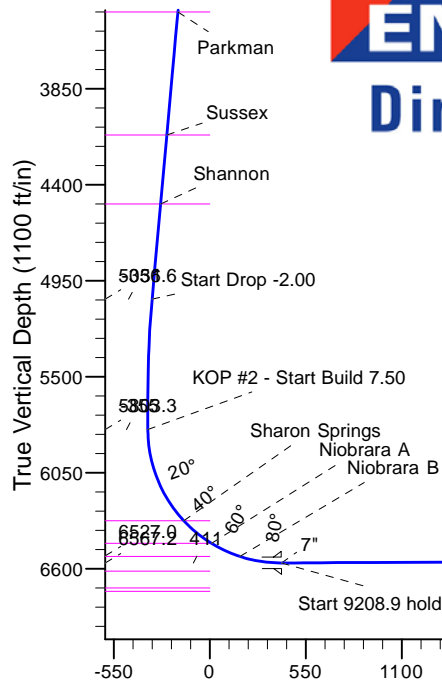
South(-)/North(+) (2500 ft/in)



## 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   | 1000.0  | 0.00  | 0.00   | 1000.0 | 0.0   | 0.0    | 0.00 | 0.00   | 0.0    |                                |
| 3   | 1729.0  | 10.93 | 328.48 | 1724.6 | 59.1  | -36.3  | 1.50 | 328.48 | -32.2  |                                |
| 4   | 5122.6  | 10.93 | 328.48 | 5056.6 | 607.9 | -372.8 | 0.00 | 0.00   | -330.6 |                                |
| 5   | 5669.3  | 0.00  | 0.00   | 5600.0 | 652.2 | -400.0 | 2.00 | 180.00 | -354.8 |                                |
| 6   | 5872.6  | 0.00  | 0.00   | 5803.2 | 652.2 | -400.0 | 0.00 | 0.00   | -354.8 |                                |
| 7   | 7075.9  | 90.25 | 90.00  | 6567.2 | 652.2 | 367.3  | 7.50 | 90.00  | 410.7  |                                |
| 8   | 16284.8 | 90.25 | 90.00  | 6527.0 | 652.2 | 9576.1 | 0.00 | 0.00   | 9598.3 | BHL 1680'FNL & 500'FEL, Sec.25 |

**ENSIGN**  
Directional



**BHL 1680'FNL & 500'FEL, Sec.25**

TD at 16284.8

Vertical Section at 86.10° (1100 ft/in)



# Directional

## PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Bihain 5N64W26GK Pad Sec.26-T5N-R64W

Bihain 26F-232

Wellbore #1

Plan: Plan #1 Extention (3-3-16)

## Standard Planning Report

09 March, 2016

|                  |                                      |                                     |                             |
|------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | US_EDM                               | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Company:</b>  | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Project:</b>  | SEC.26-T5N-R64W                      | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site:</b>     | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>North Reference:</b>             | True                        |
| <b>Well:</b>     | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | Wellbore #1                          |                                     |                             |
| <b>Design:</b>   | Plan #1 Extention (3-3-16)           |                                     |                             |

|                    |                                  |                      |                             |
|--------------------|----------------------------------|----------------------|-----------------------------|
| <b>Project</b>     | SEC.26-T5N-R64W, Weld County, CO |                      |                             |
| <b>Map System:</b> | US State Plane 1983              | <b>System Datum:</b> | Mean Sea Level              |
| <b>Geo Datum:</b>  | North American Datum 1983        |                      | Using Well Reference Point  |
| <b>Map Zone:</b>   | 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 26F-232 |          |                     |                   |               |             |
| Well Position        | +N/-S          | 28.8 ft  | Northing:           | 1,379,552.95 usft | Latitude:     | 40.371173   |
|                      | +E/-W          | -34.6 ft | Easting:            | 3,271,716.10 usft | Longitude:    | -104.524790 |
| Position Uncertainty |                | 0.0 ft   | Wellhead Elevation: | 0.0 ft            | Ground Level: | 4,604.0 ft  |

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

|                          |                              |                   |                      |                      |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #1 Extention (3-3-16)   |                   |                      |                      |
| <b>Audit Notes:</b>      |                              |                   |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                | PROTOTYPE         | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |
|                          | 0.0                          | 0.0               | 0.0                  | 86.10                |

| <b>Plan Sections</b> |                 |             |                     |            |            |                         |                        |                       |         |                     |
|----------------------|-----------------|-------------|---------------------|------------|------------|-------------------------|------------------------|-----------------------|---------|---------------------|
| 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    |                     |
| 1,000.0              | 0.00            | 0.00        | 1,000.0             | 0.0        | 0.0        | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 1,729.0              | 10.93           | 328.48      | 1,724.6             | 59.1       | -36.3      | 1.50                    | 1.50                   | 0.00                  | 328.48  |                     |
| 5,122.6              | 10.93           | 328.48      | 5,056.6             | 607.9      | -372.8     | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 5,669.3              | 0.00            | 0.00        | 5,600.0             | 652.2      | -400.0     | 2.00                    | -2.00                  | 0.00                  | 180.00  |                     |
| 5,872.6              | 0.00            | 0.00        | 5,803.2             | 652.2      | -400.0     | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 7,075.9              | 90.25           | 90.00       | 6,567.2             | 652.2      | 367.3      | 7.50                    | 7.50                   | 0.00                  | 90.00   |                     |
| 16,284.8             | 90.25           | 90.00       | 6,527.0             | 652.2      | 9,576.1    | 0.00                    | 0.00                   | 0.00                  | 0.00    | BHL 1680'FNL & 500' |

|           |                                      |                              |                             |
|-----------|--------------------------------------|------------------------------|-----------------------------|
| Database: | US_EDM                               | Local Co-ordinate Reference: | Well Bihain 26F-232         |
| 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 26F-232                       | Survey Calculation Method:   | Minimum Curvature           |
| Wellbore: | Wellbore #1                          |                              |                             |
| Design:   | Plan #1 Extention (3-3-16)           |                              |                             |

| 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 2350'FNL & 450'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                  |
| KOP - Start Build 1.50         |                 |             |                     |            |            |                       |                         |                        |                       |
| 1,100.0                        | 1.50            | 328.48      | 1,100.0             | 1.1        | -0.7       | -0.6                  | 1.50                    | 1.50                   | 0.00                  |
| 1,200.0                        | 3.00            | 328.48      | 1,199.9             | 4.5        | -2.7       | -2.4                  | 1.50                    | 1.50                   | 0.00                  |
| 1,300.0                        | 4.50            | 328.48      | 1,299.7             | 10.0       | -6.2       | -5.5                  | 1.50                    | 1.50                   | 0.00                  |
| 1,400.0                        | 6.00            | 328.48      | 1,399.3             | 17.8       | -10.9      | -9.7                  | 1.50                    | 1.50                   | 0.00                  |
| 1,500.0                        | 7.50            | 328.48      | 1,498.6             | 27.9       | -17.1      | -15.2                 | 1.50                    | 1.50                   | 0.00                  |
| 1,600.0                        | 9.00            | 328.48      | 1,597.5             | 40.1       | -24.6      | -21.8                 | 1.50                    | 1.50                   | 0.00                  |
| 1,700.0                        | 10.50           | 328.48      | 1,696.1             | 54.5       | -33.4      | -29.7                 | 1.50                    | 1.50                   | 0.00                  |
| 1,729.0                        | 10.93           | 328.48      | 1,724.6             | 59.1       | -36.3      | -32.2                 | 1.50                    | 1.50                   | 0.00                  |
| 1,800.0                        | 10.93           | 328.48      | 1,794.3             | 70.6       | -43.3      | -38.4                 | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0                        | 10.93           | 328.48      | 1,892.5             | 86.8       | -53.2      | -47.2                 | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0                        | 10.93           | 328.48      | 1,990.7             | 102.9      | -63.1      | -56.0                 | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0                        | 10.93           | 328.48      | 2,088.8             | 119.1      | -73.1      | -64.8                 | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0                        | 10.93           | 328.48      | 2,187.0             | 135.3      | -83.0      | -73.6                 | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0                        | 10.93           | 328.48      | 2,285.2             | 151.5      | -92.9      | -82.4                 | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0                        | 10.93           | 328.48      | 2,383.4             | 167.6      | -102.8     | -91.2                 | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0                        | 10.93           | 328.48      | 2,481.6             | 183.8      | -112.7     | -100.0                | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0                        | 10.93           | 328.48      | 2,579.8             | 200.0      | -122.6     | -108.8                | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0                        | 10.93           | 328.48      | 2,678.0             | 216.1      | -132.6     | -117.6                | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0                        | 10.93           | 328.48      | 2,776.1             | 232.3      | -142.5     | -126.4                | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0                        | 10.93           | 328.48      | 2,874.3             | 248.5      | -152.4     | -135.2                | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0                        | 10.93           | 328.48      | 2,972.5             | 264.6      | -162.3     | -143.9                | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0                        | 10.93           | 328.48      | 3,070.7             | 280.8      | -172.2     | -152.7                | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0                        | 10.93           | 328.48      | 3,168.9             | 297.0      | -182.1     | -161.5                | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0                        | 10.93           | 328.48      | 3,267.1             | 313.1      | -192.1     | -170.3                | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0                        | 10.93           | 328.48      | 3,365.2             | 329.3      | -202.0     | -179.1                | 0.00                    | 0.00                   | 0.00                  |
| 3,445.6                        | 10.93           | 328.48      | 3,410.0             | 336.7      | -206.5     | -183.1                | 0.00                    | 0.00                   | 0.00                  |
| Parkman                        |                 |             |                     |            |            |                       |                         |                        |                       |
| 3,500.0                        | 10.93           | 328.48      | 3,463.4             | 345.5      | -211.9     | -187.9                | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0                        | 10.93           | 328.48      | 3,561.6             | 361.7      | -221.8     | -196.7                | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0                        | 10.93           | 328.48      | 3,659.8             | 377.8      | -231.7     | -205.5                | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0                        | 10.93           | 328.48      | 3,758.0             | 394.0      | -241.6     | -214.3                | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0                        | 10.93           | 328.48      | 3,856.2             | 410.2      | -251.6     | -223.1                | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0                        | 10.93           | 328.48      | 3,954.4             | 426.3      | -261.5     | -231.9                | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0                        | 10.93           | 328.48      | 4,052.5             | 442.5      | -271.4     | -240.7                | 0.00                    | 0.00                   | 0.00                  |
| 4,163.6                        | 10.93           | 328.48      | 4,115.0             | 452.8      | -277.7     | -246.3                | 0.00                    | 0.00                   | 0.00                  |
| Sussex                         |                 |             |                     |            |            |                       |                         |                        |                       |
| 4,200.0                        | 10.93           | 328.48      | 4,150.7             | 458.7      | -281.3     | -249.5                | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0                        | 10.93           | 328.48      | 4,248.9             | 474.8      | -291.2     | -258.3                | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0                        | 10.93           | 328.48      | 4,347.1             | 491.0      | -301.1     | -267.1                | 0.00                    | 0.00                   | 0.00                  |

|           |                                      |                              |                             |
|-----------|--------------------------------------|------------------------------|-----------------------------|
| Database: | US_EDM                               | Local Co-ordinate Reference: | Well Bihain 26F-232         |
| 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 26F-232                       | Survey Calculation Method:   | Minimum Curvature           |
| Wellbore: | Wellbore #1                          |                              |                             |
| Design:   | Plan #1 Extention (3-3-16)           |                              |                             |

| 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                             | 10.93           | 328.48      | 4,445.3             | 507.2      | -311.1     | -275.9                | 0.00                    | 0.00                   | 0.00                  |
| 4,565.9                             | 10.93           | 328.48      | 4,510.0             | 517.8      | -317.6     | -281.7                | 0.00                    | 0.00                   | 0.00                  |
| Shannon                             |                 |             |                     |            |            |                       |                         |                        |                       |
| 4,600.0                             | 10.93           | 328.48      | 4,543.5             | 523.4      | -321.0     | -284.7                | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0                             | 10.93           | 328.48      | 4,641.6             | 539.5      | -330.9     | -293.5                | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0                             | 10.93           | 328.48      | 4,739.8             | 555.7      | -340.8     | -302.3                | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0                             | 10.93           | 328.48      | 4,838.0             | 571.9      | -350.7     | -311.1                | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0                             | 10.93           | 328.48      | 4,936.2             | 588.0      | -360.6     | -319.9                | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0                             | 10.93           | 328.48      | 5,034.4             | 604.2      | -370.6     | -328.7                | 0.00                    | 0.00                   | 0.00                  |
| 5,122.6                             | 10.93           | 328.48      | 5,056.6             | 607.9      | -372.8     | -330.6                | 0.00                    | 0.00                   | 0.00                  |
| Start Drop -2.00                    |                 |             |                     |            |            |                       |                         |                        |                       |
| 5,200.0                             | 9.39            | 328.48      | 5,132.8             | 619.5      | -379.9     | -337.0                | 2.00                    | -2.00                  | 0.00                  |
| 5,300.0                             | 7.39            | 328.48      | 5,231.7             | 631.9      | -387.6     | -343.7                | 2.00                    | -2.00                  | 0.00                  |
| 5,400.0                             | 5.39            | 328.48      | 5,331.1             | 641.4      | -393.4     | -348.9                | 2.00                    | -2.00                  | 0.00                  |
| 5,500.0                             | 3.39            | 328.48      | 5,430.8             | 647.9      | -397.4     | -352.4                | 2.00                    | -2.00                  | 0.00                  |
| 5,600.0                             | 1.39            | 328.48      | 5,530.7             | 651.5      | -399.6     | -354.4                | 2.00                    | -2.00                  | 0.00                  |
| 5,669.3                             | 0.00            | 0.00        | 5,600.0             | 652.2      | -400.0     | -354.8                | 2.00                    | -2.00                  | 0.00                  |
| 5,700.0                             | 0.00            | 0.00        | 5,630.7             | 652.2      | -400.0     | -354.8                | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0                             | 0.00            | 0.00        | 5,730.7             | 652.2      | -400.0     | -354.8                | 0.00                    | 0.00                   | 0.00                  |
| 5,872.6                             | 0.00            | 0.00        | 5,803.3             | 652.2      | -400.0     | -354.8                | 0.00                    | 0.00                   | 0.00                  |
| KOP #2 - Start Build 7.50           |                 |             |                     |            |            |                       |                         |                        |                       |
| 5,900.0                             | 2.06            | 90.00       | 5,830.7             | 652.2      | -399.5     | -354.3                | 7.50                    | 7.50                   | 0.00                  |
| 6,000.0                             | 9.56            | 90.00       | 5,930.1             | 652.2      | -389.4     | -344.2                | 7.50                    | 7.50                   | 0.00                  |
| 6,100.0                             | 17.06           | 90.00       | 6,027.3             | 652.2      | -366.4     | -321.2                | 7.50                    | 7.50                   | 0.00                  |
| 6,200.0                             | 24.56           | 90.00       | 6,120.7             | 652.2      | -330.9     | -285.8                | 7.50                    | 7.50                   | 0.00                  |
| 6,300.0                             | 32.06           | 90.00       | 6,208.7             | 652.2      | -283.5     | -238.6                | 7.50                    | 7.50                   | 0.00                  |
| 6,400.0                             | 39.56           | 90.00       | 6,289.7             | 652.2      | -225.1     | -180.2                | 7.50                    | 7.50                   | 0.00                  |
| 6,446.9                             | 43.08           | 90.00       | 6,325.0             | 652.2      | -194.1     | -149.3                | 7.50                    | 7.50                   | 0.00                  |
| Sharon Springs                      |                 |             |                     |            |            |                       |                         |                        |                       |
| 6,500.0                             | 47.06           | 90.00       | 6,362.5             | 652.2      | -156.5     | -111.8                | 7.50                    | 7.50                   | 0.00                  |
| 6,600.0                             | 54.56           | 90.00       | 6,425.6             | 652.2      | -79.1      | -34.6                 | 7.50                    | 7.50                   | 0.00                  |
| 6,653.3                             | 58.56           | 90.00       | 6,455.0             | 652.2      | -34.6      | 9.8                   | 7.50                    | 7.50                   | 0.00                  |
| Niobrara A                          |                 |             |                     |            |            |                       |                         |                        |                       |
| 6,700.0                             | 62.06           | 90.00       | 6,478.1             | 652.2      | 6.0        | 50.3                  | 7.50                    | 7.50                   | 0.00                  |
| 6,800.0                             | 69.56           | 90.00       | 6,519.1             | 652.2      | 97.1       | 141.2                 | 7.50                    | 7.50                   | 0.00                  |
| 6,833.2                             | 72.05           | 90.00       | 6,530.0             | 652.2      | 128.5      | 172.5                 | 7.50                    | 7.50                   | 0.00                  |
| Niobrara B                          |                 |             |                     |            |            |                       |                         |                        |                       |
| 6,900.0                             | 77.06           | 90.00       | 6,547.8             | 652.2      | 192.8      | 236.7                 | 7.50                    | 7.50                   | 0.00                  |
| 7,000.0                             | 84.56           | 90.00       | 6,563.7             | 652.2      | 291.5      | 335.1                 | 7.50                    | 7.50                   | 0.00                  |
| 7,075.9                             | 90.25           | 90.00       | 6,567.2             | 652.2      | 367.3      | 410.7                 | 7.50                    | 7.50                   | 0.00                  |
| Start 9208.9 hold at 7075.9 MD - 7" |                 |             |                     |            |            |                       |                         |                        |                       |
| 7,100.0                             | 90.25           | 90.00       | 6,567.1             | 652.2      | 391.4      | 434.8                 | 0.01                    | 0.01                   | 0.00                  |
| 7,200.0                             | 90.25           | 90.00       | 6,566.6             | 652.2      | 491.4      | 534.5                 | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0                             | 90.25           | 90.00       | 6,566.2             | 652.2      | 591.4      | 634.3                 | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0                             | 90.25           | 90.00       | 6,565.8             | 652.2      | 691.4      | 734.1                 | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0                             | 90.25           | 90.00       | 6,565.3             | 652.2      | 791.4      | 833.8                 | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0                             | 90.25           | 90.00       | 6,564.9             | 652.2      | 891.4      | 933.6                 | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0                             | 90.25           | 90.00       | 6,564.5             | 652.2      | 991.4      | 1,033.4               | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0                             | 90.25           | 90.00       | 6,564.0             | 652.2      | 1,091.3    | 1,133.1               | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0                             | 90.25           | 90.00       | 6,563.6             | 652.2      | 1,191.3    | 1,232.9               | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0                             | 90.25           | 90.00       | 6,563.1             | 652.2      | 1,291.3    | 1,332.7               | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0                             | 90.25           | 90.00       | 6,562.7             | 652.2      | 1,391.3    | 1,432.4               | 0.00                    | 0.00                   | 0.00                  |

|                  |                                      |                                     |                             |
|------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | US_EDM                               | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Company:</b>  | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Project:</b>  | SEC.26-T5N-R64W                      | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site:</b>     | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>North Reference:</b>             | True                        |
| <b>Well:</b>     | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | Wellbore #1                          |                                     |                             |
| <b>Design:</b>   | Plan #1 Extention (3-3-16)           |                                     |                             |

| 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) |
| 8,200.0             | 90.25           | 90.00       | 6,562.3             | 652.2      | 1,491.3    | 1,532.2               | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0             | 90.25           | 90.00       | 6,561.8             | 652.2      | 1,591.3    | 1,632.0               | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0             | 90.25           | 90.00       | 6,561.4             | 652.2      | 1,691.3    | 1,731.7               | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0             | 90.25           | 90.00       | 6,561.0             | 652.2      | 1,791.3    | 1,831.5               | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0             | 90.25           | 90.00       | 6,560.5             | 652.2      | 1,891.3    | 1,931.3               | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0             | 90.25           | 90.00       | 6,560.1             | 652.2      | 1,991.3    | 2,031.1               | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0             | 90.25           | 90.00       | 6,559.7             | 652.2      | 2,091.3    | 2,130.8               | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0             | 90.25           | 90.00       | 6,559.2             | 652.2      | 2,191.3    | 2,230.6               | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0             | 90.25           | 90.00       | 6,558.8             | 652.2      | 2,291.3    | 2,330.4               | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0             | 90.25           | 90.00       | 6,558.3             | 652.2      | 2,391.3    | 2,430.1               | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0             | 90.25           | 90.00       | 6,557.9             | 652.2      | 2,491.3    | 2,529.9               | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0             | 90.25           | 90.00       | 6,557.5             | 652.2      | 2,591.3    | 2,629.7               | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0             | 90.25           | 90.00       | 6,557.0             | 652.2      | 2,691.3    | 2,729.4               | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0             | 90.25           | 90.00       | 6,556.6             | 652.2      | 2,791.3    | 2,829.2               | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0             | 90.25           | 90.00       | 6,556.2             | 652.2      | 2,891.3    | 2,929.0               | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0             | 90.25           | 90.00       | 6,555.7             | 652.2      | 2,991.3    | 3,028.7               | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0             | 90.25           | 90.00       | 6,555.3             | 652.2      | 3,091.3    | 3,128.5               | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0             | 90.25           | 90.00       | 6,554.9             | 652.2      | 3,191.3    | 3,228.3               | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0            | 90.25           | 90.00       | 6,554.4             | 652.2      | 3,291.3    | 3,328.0               | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0            | 90.25           | 90.00       | 6,554.0             | 652.2      | 3,391.3    | 3,427.8               | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0            | 90.25           | 90.00       | 6,553.5             | 652.2      | 3,491.3    | 3,527.6               | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0            | 90.25           | 90.00       | 6,553.1             | 652.2      | 3,591.3    | 3,627.3               | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0            | 90.25           | 90.00       | 6,552.7             | 652.2      | 3,691.3    | 3,727.1               | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0            | 90.25           | 90.00       | 6,552.2             | 652.2      | 3,791.3    | 3,826.9               | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0            | 90.25           | 90.00       | 6,551.8             | 652.2      | 3,891.3    | 3,926.6               | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0            | 90.25           | 90.00       | 6,551.4             | 652.2      | 3,991.3    | 4,026.4               | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0            | 90.25           | 90.00       | 6,550.9             | 652.2      | 4,091.3    | 4,126.2               | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0            | 90.25           | 90.00       | 6,550.5             | 652.2      | 4,191.3    | 4,225.9               | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0            | 90.25           | 90.00       | 6,550.1             | 652.2      | 4,291.3    | 4,325.7               | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0            | 90.25           | 90.00       | 6,549.6             | 652.2      | 4,391.3    | 4,425.5               | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0            | 90.25           | 90.00       | 6,549.2             | 652.2      | 4,491.3    | 4,525.3               | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0            | 90.25           | 90.00       | 6,548.8             | 652.2      | 4,591.3    | 4,625.0               | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0            | 90.25           | 90.00       | 6,548.3             | 652.2      | 4,691.3    | 4,724.8               | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0            | 90.25           | 90.00       | 6,547.9             | 652.2      | 4,791.3    | 4,824.6               | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0            | 90.25           | 90.00       | 6,547.4             | 652.2      | 4,891.3    | 4,924.3               | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0            | 90.25           | 90.00       | 6,547.0             | 652.2      | 4,991.3    | 5,024.1               | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0            | 90.25           | 90.00       | 6,546.6             | 652.2      | 5,091.3    | 5,123.9               | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0            | 90.25           | 90.00       | 6,546.1             | 652.2      | 5,191.3    | 5,223.6               | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0            | 90.25           | 90.00       | 6,545.7             | 652.2      | 5,291.3    | 5,323.4               | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0            | 90.25           | 90.00       | 6,545.3             | 652.2      | 5,391.3    | 5,423.2               | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0            | 90.25           | 90.00       | 6,544.8             | 652.2      | 5,491.3    | 5,522.9               | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0            | 90.25           | 90.00       | 6,544.4             | 652.2      | 5,591.3    | 5,622.7               | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0            | 90.25           | 90.00       | 6,544.0             | 652.2      | 5,691.3    | 5,722.5               | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0            | 90.25           | 90.00       | 6,543.5             | 652.2      | 5,791.3    | 5,822.2               | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0            | 90.25           | 90.00       | 6,543.1             | 652.2      | 5,891.3    | 5,922.0               | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0            | 90.25           | 90.00       | 6,542.6             | 652.2      | 5,991.3    | 6,021.8               | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0            | 90.25           | 90.00       | 6,542.2             | 652.2      | 6,091.3    | 6,121.5               | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0            | 90.25           | 90.00       | 6,541.8             | 652.2      | 6,191.3    | 6,221.3               | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0            | 90.25           | 90.00       | 6,541.3             | 652.2      | 6,291.3    | 6,321.1               | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0            | 90.25           | 90.00       | 6,540.9             | 652.2      | 6,391.3    | 6,420.8               | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0            | 90.25           | 90.00       | 6,540.5             | 652.2      | 6,491.3    | 6,520.6               | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0            | 90.25           | 90.00       | 6,540.0             | 652.2      | 6,591.3    | 6,620.4               | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0            | 90.25           | 90.00       | 6,539.6             | 652.2      | 6,691.3    | 6,720.1               | 0.00                    | 0.00                   | 0.00                  |

|                  |                                      |                                     |                             |
|------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | US_EDM                               | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Company:</b>  | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Project:</b>  | SEC.26-T5N-R64W                      | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site:</b>     | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>North Reference:</b>             | True                        |
| <b>Well:</b>     | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | Wellbore #1                          |                                     |                             |
| <b>Design:</b>   | Plan #1 Extention (3-3-16)           |                                     |                             |

| 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) |  |
| 13,500.0                                       | 90.25           | 90.00       | 6,539.2             | 652.2      | 6,791.3    | 6,819.9               | 0.00                    | 0.00                   | 0.00                  |  |
| 13,600.0                                       | 90.25           | 90.00       | 6,538.7             | 652.2      | 6,891.3    | 6,919.7               | 0.00                    | 0.00                   | 0.00                  |  |
| 13,674.3                                       | 90.25           | 90.00       | 6,538.4             | 652.2      | 6,965.6    | 6,993.8               | 0.00                    | 0.00                   | 0.00                  |  |
| BHL 1645'FNL & 2140'FWL, Sec.25                |                 |             |                     |            |            |                       |                         |                        |                       |  |
| 13,700.0                                       | 90.25           | 90.00       | 6,538.3             | 652.2      | 6,991.3    | 7,019.4               | 0.00                    | 0.00                   | 0.00                  |  |
| 13,800.0                                       | 90.25           | 90.00       | 6,537.8             | 652.2      | 7,091.3    | 7,119.2               | 0.00                    | 0.00                   | 0.00                  |  |
| 13,900.0                                       | 90.25           | 90.00       | 6,537.4             | 652.2      | 7,191.3    | 7,219.0               | 0.00                    | 0.00                   | 0.00                  |  |
| 14,000.0                                       | 90.25           | 90.00       | 6,537.0             | 652.2      | 7,291.3    | 7,318.8               | 0.00                    | 0.00                   | 0.00                  |  |
| 14,100.0                                       | 90.25           | 90.00       | 6,536.5             | 652.2      | 7,391.3    | 7,418.5               | 0.00                    | 0.00                   | 0.00                  |  |
| 14,200.0                                       | 90.25           | 90.00       | 6,536.1             | 652.2      | 7,491.3    | 7,518.3               | 0.00                    | 0.00                   | 0.00                  |  |
| 14,300.0                                       | 90.25           | 90.00       | 6,535.7             | 652.2      | 7,591.3    | 7,618.1               | 0.00                    | 0.00                   | 0.00                  |  |
| 14,400.0                                       | 90.25           | 90.00       | 6,535.2             | 652.2      | 7,691.3    | 7,717.8               | 0.00                    | 0.00                   | 0.00                  |  |
| 14,500.0                                       | 90.25           | 90.00       | 6,534.8             | 652.2      | 7,791.3    | 7,817.6               | 0.00                    | 0.00                   | 0.00                  |  |
| 14,600.0                                       | 90.25           | 90.00       | 6,534.4             | 652.2      | 7,891.3    | 7,917.4               | 0.00                    | 0.00                   | 0.00                  |  |
| 14,700.0                                       | 90.25           | 90.00       | 6,533.9             | 652.2      | 7,991.3    | 8,017.1               | 0.00                    | 0.00                   | 0.00                  |  |
| 14,800.0                                       | 90.25           | 90.00       | 6,533.5             | 652.2      | 8,091.3    | 8,116.9               | 0.00                    | 0.00                   | 0.00                  |  |
| 14,900.0                                       | 90.25           | 90.00       | 6,533.0             | 652.2      | 8,191.3    | 8,216.7               | 0.00                    | 0.00                   | 0.00                  |  |
| 15,000.0                                       | 90.25           | 90.00       | 6,532.6             | 652.2      | 8,291.3    | 8,316.4               | 0.00                    | 0.00                   | 0.00                  |  |
| 15,100.0                                       | 90.25           | 90.00       | 6,532.2             | 652.2      | 8,391.3    | 8,416.2               | 0.00                    | 0.00                   | 0.00                  |  |
| 15,200.0                                       | 90.25           | 90.00       | 6,531.7             | 652.2      | 8,491.3    | 8,516.0               | 0.00                    | 0.00                   | 0.00                  |  |
| 15,300.0                                       | 90.25           | 90.00       | 6,531.3             | 652.2      | 8,591.3    | 8,615.7               | 0.00                    | 0.00                   | 0.00                  |  |
| 15,400.0                                       | 90.25           | 90.00       | 6,530.9             | 652.2      | 8,691.3    | 8,715.5               | 0.00                    | 0.00                   | 0.00                  |  |
| 15,500.0                                       | 90.25           | 90.00       | 6,530.4             | 652.2      | 8,791.3    | 8,815.3               | 0.00                    | 0.00                   | 0.00                  |  |
| 15,600.0                                       | 90.25           | 90.00       | 6,530.0             | 652.2      | 8,891.3    | 8,915.0               | 0.00                    | 0.00                   | 0.00                  |  |
| 15,700.0                                       | 90.25           | 90.00       | 6,529.6             | 652.2      | 8,991.3    | 9,014.8               | 0.00                    | 0.00                   | 0.00                  |  |
| 15,800.0                                       | 90.25           | 90.00       | 6,529.1             | 652.2      | 9,091.3    | 9,114.6               | 0.00                    | 0.00                   | 0.00                  |  |
| 15,900.0                                       | 90.25           | 90.00       | 6,528.7             | 652.2      | 9,191.3    | 9,214.3               | 0.00                    | 0.00                   | 0.00                  |  |
| 16,000.0                                       | 90.25           | 90.00       | 6,528.2             | 652.2      | 9,291.3    | 9,314.1               | 0.00                    | 0.00                   | 0.00                  |  |
| 16,100.0                                       | 90.25           | 90.00       | 6,527.8             | 652.2      | 9,391.3    | 9,413.9               | 0.00                    | 0.00                   | 0.00                  |  |
| 16,200.0                                       | 90.25           | 90.00       | 6,527.4             | 652.2      | 9,491.3    | 9,513.6               | 0.00                    | 0.00                   | 0.00                  |  |
| 16,284.8                                       | 90.25           | 90.00       | 6,527.0             | 652.2      | 9,576.1    | 9,598.3               | 0.00                    | 0.00                   | 0.00                  |  |
| TD at 16284.8 - BHL 1680'FNL & 500'FEL, Sec.25 |                 |             |                     |            |            |                       |                         |                        |                       |  |

| Design Targets  |               |              |          |            |            |                 |                |           |             |  |
|---|---------------|--------------|----------|------------|------------|-----------------|----------------|-----------|-------------|--|
| Target Name<br>- hit/miss target<br>- Shape                   | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude  | Longitude   |  |
| SHL 2350'FNL & 450'FM<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 1.0      | 0.0        | 0.0        | 1,379,552.97    | 3,271,716.10   | 40.371173 | -104.524790 |  |
| BHL 1680'FNL & 500'FE<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 6,527.0  | 652.2      | 9,576.1    | 1,380,310.36    | 3,281,284.01   | 40.372958 | -104.490422 |  |

|                  |                                      |                                     |                             |
|------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | US_EDM                               | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Company:</b>  | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Project:</b>  | SEC.26-T5N-R64W                      | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site:</b>     | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>North Reference:</b>             | True                        |
| <b>Well:</b>     | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | Wellbore #1                          |                                     |                             |
| <b>Design:</b>   | Plan #1 Extention (3-3-16)           |                                     |                             |

| Casing Points       |                     |      |                     |                   |
|---------------------|---------------------|------|---------------------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
| 7,075.9             | 6,567.2             | 7"   | 7                   | 8-3/4             |

| Formations          |                     |                |           |         |                   |
|---------------------|---------------------|----------------|-----------|---------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name           | Lithology | Dip (°) | Dip Direction (°) |
| 3,445.6             | 3,410.0             | Parkman        |           | 0.00    |                   |
| 4,163.6             | 4,115.0             | Sussex         |           | 0.00    |                   |
| 4,565.9             | 4,510.0             | Shannon        |           | 0.00    |                   |
| 6,446.9             | 6,325.0             | Sharon Springs |           | 0.00    |                   |
| 6,653.3             | 6,455.0             | Niobrara A     |           | 0.00    |                   |
| 6,833.2             | 6,530.0             | Niobrara B     |           | 0.00    |                   |

| Plan Annotations    |                     |                   |            |                                |
|---------------------|---------------------|-------------------|------------|--------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                        |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                                |
| 1,000.0             | 1,000.0             | 0.0               | 0.0        | KOP - Start Build 1.50         |
| 5,122.6             | 5,056.6             | 607.9             | -372.8     | Start Drop -2.00               |
| 5,872.6             | 5,803.3             | 652.2             | -400.0     | KOP #2 - Start Build 7.50      |
| 7,075.9             | 6,567.2             | 652.2             | 367.3      | Start 9208.9 hold at 7075.9 MD |
| 16,284.8            | 6,527.0             | 652.2             | 9,576.1    | TD at 16284.8                  |





# Directional

## PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Bihain 5N64W26GK Pad Sec.26-T5N-R64W

Bihain 26F-232

Wellbore #1

Plan #1 Extention (3-3-16)

## Anticollision Report

09 March, 2016



|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extension (3-3-16)           | <b>Offset TVD Reference:</b>        | Offset Datum                |

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

|                            |                |  |                  |                    |
|----------------------------|----------------|--|------------------|--------------------|
| <b>Survey Tool Program</b> | <b>Date</b>    | 3/7/2016                                 |                  |                    |
| <b>From (ft)</b>           | <b>To (ft)</b> | <b>Survey (Wellbore)</b>                 | <b>Tool Name</b> | <b>Description</b> |
| 0.0                        | 16,284.8       | Plan #1 Extension (3-3-16) (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             |
| <b>Offset Well - Wellbore - Design</b>                    |                               |                            |                               |                                |                   |                     |
| Bihain 5N64W26GK Pad Sec.26-T5N-R64W                      |                               |                            |                               |                                |                   |                     |
| Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16) | 1,000.0                       | 1,000.0                    | 15.1                          | 10.8                           | 3.530             | CC                  |
| Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16) | 16,284.8                      | 16,342.1                   | 221.6                         | -302.2                         | 0.423             | Level 1, ES, SF     |
| Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1)  | 1,000.0                       | 1,000.0                    | 60.0                          | 55.8                           | 14.055            | CC, ES              |
| Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1)  | 16,284.8                      | 16,248.9                   | 908.0                         | 359.6                          | 1.656             | SF                  |
| Bihain 26G-212 - Wellbore #1 - Plan #1 Extended (3-3-16)  | 1,000.0                       | 1,000.0                    | 30.1                          | 25.9                           | 7.055             | CC                  |
| Bihain 26G-212 - Wellbore #1 - Plan #1 Extended (3-3-16)  | 16,284.8                      | 16,245.9                   | 519.9                         | -28.9                          | 0.947             | Level 1, ES, SF     |
| Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1)  | 1,000.0                       | 1,000.0                    | 45.0                          | 40.7                           | 10.529            | CC, ES              |
| Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1)  | 16,284.8                      | 16,324.1                   | 760.9                         | 213.9                          | 1.391             | Level 3, SF         |
| Connie 5N64W26EF Pad Sec.26-T5N-R64W                      |                               |                            |                               |                                |                   |                     |
| Connie 26F-402 - Wellbore #1 - Plan #1 Extension (3-4-1)  | 5,985.8                       | 6,015.6                    | 209.9                         | 179.8                          | 6.974             | CC                  |
| Connie 26F-402 - Wellbore #1 - Plan #1 Extension (3-4-1)  | 16,284.8                      | 16,464.1                   | 270.1                         | -166.9                         | 0.618             | Level 1, ES, SF     |
| Existing Wells Pad Sec.26-T5N-R64W                        |                               |                            |                               |                                |                   |                     |
| Bihain 26-2 (Exist.) - Wellbore #1 - Wellbore #1          | 8,254.0                       | 6,532.0                    | 296.6                         | 114.9                          | 1.633             | CC, ES, SF          |
| Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1          | 6,945.7                       | 6,528.7                    | 275.5                         | 124.8                          | 1.829             | CC                  |
| Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1          | 6,950.0                       | 6,529.4                    | 275.5                         | 124.8                          | 1.828             | ES, SF              |
| Monfort Kuner B 26-7 (Exist.) - Wellbore #1 - Wellbore #1 | 9,581.7                       | 6,522.2                    | 269.1                         | 51.5                           | 1.237             | Level 2, CC, ES, SF |
| Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1 | 10,828.6                      | 6,513.6                    | 310.3                         | 175.4                          | 2.301             | CC, ES, SF          |
| Kuner 8-2-25 Pad Sec.25-T5N-R64W                          |                               |                            |                               |                                |                   |                     |
| Kuner 32-25 - Wellbore #1 - Wellbore #1                   | 14,802.2                      | 6,854.7                    | 288.2                         | 19.8                           | 1.074             | Level 2, CC, ES, SF |
| Kuner 42-25 - Wellbore #1 - Wellbore #1                   | 16,110.5                      | 6,586.6                    | 275.5                         | -10.2                          | 0.964             | Level 1, CC, ES, SF |
| Kuner 6-4-25 - Wellbore #1 - Wellbore #1                  | 15,501.5                      | 6,794.5                    | 851.9                         | 575.0                          | 3.077             | CC, ES              |
| Kuner 6-4-25 - Wellbore #1 - Wellbore #1                  | 15,600.0                      | 6,793.1                    | 857.6                         | 577.9                          | 3.067             | SF                  |

| <b>Offset Design</b>   | Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16) |                     |                     |                 |             |                       |                                   |            |                      |                       |                   | <b>Offset Site Error:</b> | 0.0 ft |
|------------------------|--|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------|---------------------------|--------|
| <b>Survey Program:</b> | O-MWD  |                     |                     |                 |             |                       |                                   |            |                      |                       |                   | <b>Offset Well Error:</b> | 0.0 ft |
| Reference              |  | Offset              |                     | Semi Major Axis |             | Reference             |                                   | 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         | 130.73                | -9.8                              | 11.4       | 15.1                 | 15.1                  | 0.00              | N/A                       |        |
| 100.0                  | 100.0  | 100.0               | 100.0               | 0.1             | 0.1         | 130.73                | -9.8                              | 11.4       | 15.1                 | 14.9                  | 0.22              | 67.072                    |        |
| 200.0                  | 200.0  | 200.0               | 200.0               | 0.3             | 0.3         | 130.73                | -9.8                              | 11.4       | 15.1                 | 14.4                  | 0.67              | 22.357                    |        |

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

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 |                    |         |
| 300.0  | 300.0               | 300.0               | 300.0               | 0.6             | 0.6         | 130.73                | -9.8                              | 11.4       | 15.1                 | 14.0                  | 1.12                    | 13.414            |                    |         |
| 400.0  | 400.0               | 400.0               | 400.0               | 0.8             | 0.8         | 130.73                | -9.8                              | 11.4       | 15.1                 | 13.5                  | 1.57                    | 9.582             |                    |         |
| 500.0  | 500.0               | 500.0               | 500.0               | 1.0             | 1.0         | 130.73                | -9.8                              | 11.4       | 15.1                 | 13.1                  | 2.02                    | 7.452             |                    |         |
| 600.0  | 600.0               | 600.0               | 600.0               | 1.2             | 1.2         | 130.73                | -9.8                              | 11.4       | 15.1                 | 12.6                  | 2.47                    | 6.097             |                    |         |
| 700.0  | 700.0               | 700.0               | 700.0               | 1.5             | 1.5         | 130.73                | -9.8                              | 11.4       | 15.1                 | 12.2                  | 2.92                    | 5.159             |                    |         |
| 800.0  | 800.0               | 800.0               | 800.0               | 1.7             | 1.7         | 130.73                | -9.8                              | 11.4       | 15.1                 | 11.7                  | 3.37                    | 4.471             |                    |         |
| 900.0  | 900.0               | 900.0               | 900.0               | 1.9             | 1.9         | 130.73                | -9.8                              | 11.4       | 15.1                 | 11.3                  | 3.82                    | 3.945             |                    |         |
| 1,000.0  | 1,000.0             | 1,000.0             | 1,000.0             | 2.1             | 2.1         | 130.73                | -9.8                              | 11.4       | 15.1                 | 10.8                  | 4.27                    | 3.530 CC          |                    |         |
| 1,100.0  | 1,100.0             | 1,100.0             | 1,100.0             | 2.4             | 2.4         | 163.65                | -9.8                              | 11.4       | 16.3                 | 11.6                  | 4.72                    | 3.460             |                    |         |
| 1,200.0  | 1,199.9             | 1,199.9             | 1,199.9             | 2.6             | 2.6         | 166.78                | -9.8                              | 11.4       | 20.1                 | 15.0                  | 5.16                    | 3.897             |                    |         |
| 1,300.0  | 1,299.7             | 1,300.4             | 1,300.4             | 2.8             | 2.8         | 170.06                | -8.9                              | 10.5       | 25.2                 | 19.6                  | 5.60                    | 4.501             |                    |         |
| 1,400.0  | 1,399.3             | 1,401.0             | 1,400.9             | 3.0             | 3.0         | 173.16                | -5.9                              | 7.9        | 30.3                 | 24.3                  | 6.04                    | 5.026             |                    |         |
| 1,500.0  | 1,498.6             | 1,501.7             | 1,501.4             | 3.3             | 3.3         | 176.17                | -1.0                              | 3.4        | 35.5                 | 29.1                  | 6.47                    | 5.487             |                    |         |
| 1,600.0  | 1,597.5             | 1,602.5             | 1,601.8             | 3.6             | 3.5         | 179.11                | 5.8                               | -2.8       | 40.8                 | 33.9                  | 6.91                    | 5.902             |                    |         |
| 1,700.0  | 1,696.1             | 1,703.5             | 1,702.0             | 3.9             | 3.7         | -178.02               | 14.7                              | -10.9      | 46.2                 | 38.8                  | 7.35                    | 6.279             |                    |         |
| 1,729.0  | 1,724.6             | 1,732.7             | 1,731.0             | 4.0             | 3.8         | -177.19               | 17.6                              | -13.5      | 47.8                 | 40.3                  | 7.49                    | 6.381             |                    |         |
| 1,800.0  | 1,794.3             | 1,804.6             | 1,802.0             | 4.2             | 4.0         | -175.13               | 25.5                              | -20.7      | 51.1                 | 43.2                  | 7.82                    | 6.527             |                    |         |
| 1,900.0  | 1,892.5             | 1,904.6             | 1,900.8             | 4.5             | 4.3         | -172.29               | 37.3                              | -31.5      | 54.6                 | 46.3                  | 8.31                    | 6.574             |                    |         |
| 2,000.0  | 1,990.7             | 2,004.5             | 1,999.4             | 4.9             | 4.6         | -169.81               | 49.2                              | -42.3      | 58.3                 | 49.5                  | 8.82                    | 6.617             |                    |         |
| 2,100.0  | 2,088.8             | 2,104.4             | 2,098.0             | 5.2             | 4.9         | -167.62               | 61.0                              | -53.0      | 62.1                 | 52.8                  | 9.33                    | 6.655             |                    |         |
| 2,200.0  | 2,187.0             | 2,204.3             | 2,196.6             | 5.6             | 5.2         | -165.68               | 72.9                              | -63.8      | 66.0                 | 56.1                  | 9.87                    | 6.688             |                    |         |
| 2,300.0  | 2,285.2             | 2,304.2             | 2,295.2             | 6.0             | 5.6         | -163.97               | 84.7                              | -74.6      | 69.9                 | 59.5                  | 10.41                   | 6.716             |                    |         |
| 2,400.0  | 2,383.4             | 2,404.1             | 2,393.8             | 6.4             | 5.9         | -162.43               | 96.6                              | -85.4      | 73.9                 | 62.9                  | 10.97                   | 6.738             |                    |         |
| 2,500.0  | 2,481.6             | 2,504.0             | 2,492.5             | 6.8             | 6.2         | -161.06               | 108.4                             | -96.1      | 77.9                 | 66.4                  | 11.54                   | 6.756             |                    |         |
| 2,600.0  | 2,579.8             | 2,603.9             | 2,591.1             | 7.2             | 6.6         | -159.82               | 120.3                             | -106.9     | 82.0                 | 69.9                  | 12.11                   | 6.771             |                    |         |
| 2,700.0  | 2,678.0             | 2,703.8             | 2,689.7             | 7.6             | 6.9         | -158.69               | 132.1                             | -117.7     | 86.1                 | 73.4                  | 12.70                   | 6.782             |                    |         |
| 2,800.0  | 2,776.1             | 2,803.7             | 2,788.3             | 8.0             | 7.3         | -157.67               | 143.9                             | -128.5     | 90.3                 | 77.0                  | 13.30                   | 6.790             |                    |         |
| 2,900.0  | 2,874.3             | 2,903.6             | 2,886.9             | 8.4             | 7.6         | -156.74               | 155.8                             | -139.3     | 94.4                 | 80.5                  | 13.90                   | 6.795             |                    |         |
| 3,000.0  | 2,972.5             | 3,003.5             | 2,985.5             | 8.8             | 8.0         | -155.89               | 167.6                             | -150.0     | 98.6                 | 84.1                  | 14.51                   | 6.799             |                    |         |
| 3,100.0  | 3,070.7             | 3,103.4             | 3,084.1             | 9.2             | 8.3         | -155.11               | 179.5                             | -160.8     | 102.8                | 87.7                  | 15.12                   | 6.801             |                    |         |
| 3,200.0  | 3,168.9             | 3,203.3             | 3,182.7             | 9.6             | 8.7         | -154.39               | 191.3                             | -171.6     | 107.1                | 91.3                  | 15.74                   | 6.802             |                    |         |
| 3,300.0  | 3,267.1             | 3,303.2             | 3,281.3             | 10.0            | 9.0         | -153.73               | 203.2                             | -182.4     | 111.3                | 95.0                  | 16.37                   | 6.802             |                    |         |
| 3,400.0  | 3,365.2             | 3,403.1             | 3,379.9             | 10.4            | 9.4         | -153.11               | 215.0                             | -193.1     | 115.6                | 98.6                  | 17.00                   | 6.800             |                    |         |
| 3,500.0  | 3,463.4             | 3,503.0             | 3,478.6             | 10.8            | 9.7         | -152.54               | 226.9                             | -203.9     | 119.8                | 102.2                 | 17.63                   | 6.798             |                    |         |
| 3,600.0  | 3,561.6             | 3,602.9             | 3,577.2             | 11.2            | 10.1        | -152.01               | 238.7                             | -214.7     | 124.1                | 105.9                 | 18.27                   | 6.796             |                    |         |
| 3,700.0  | 3,659.8             | 3,702.8             | 3,675.8             | 11.6            | 10.5        | -151.51               | 250.6                             | -225.5     | 128.4                | 109.5                 | 18.91                   | 6.793             |                    |         |
| 3,800.0  | 3,758.0             | 3,802.7             | 3,774.4             | 12.0            | 10.8        | -151.04               | 262.4                             | -236.2     | 132.7                | 113.2                 | 19.55                   | 6.789             |                    |         |
| 3,900.0  | 3,856.2             | 3,902.6             | 3,873.0             | 12.4            | 11.2        | -150.61               | 274.3                             | -247.0     | 137.0                | 116.8                 | 20.19                   | 6.785             |                    |         |
| 4,000.0  | 3,954.4             | 4,002.5             | 3,971.6             | 12.8            | 11.6        | -150.20               | 286.1                             | -257.8     | 141.3                | 120.5                 | 20.84                   | 6.781             |                    |         |
| 4,100.0  | 4,052.5             | 4,102.4             | 4,070.2             | 13.3            | 11.9        | -149.81               | 297.9                             | -268.6     | 145.7                | 124.2                 | 21.49                   | 6.777             |                    |         |
| 4,200.0  | 4,150.7             | 4,202.3             | 4,168.8             | 13.7            | 12.3        | -149.45               | 309.8                             | -279.4     | 150.0                | 127.9                 | 22.15                   | 6.773             |                    |         |
| 4,300.0  | 4,248.9             | 4,302.2             | 4,267.4             | 14.1            | 12.7        | -149.11               | 321.6                             | -290.1     | 154.3                | 131.5                 | 22.80                   | 6.769             |                    |         |
| 4,400.0  | 4,347.1             | 4,402.2             | 4,366.0             | 14.5            | 13.0        | -148.78               | 333.5                             | -300.9     | 158.7                | 135.2                 | 23.46                   | 6.765             |                    |         |
| 4,500.0  | 4,445.3             | 4,502.1             | 4,464.6             | 14.9            | 13.4        | -148.48               | 345.3                             | -311.7     | 163.0                | 138.9                 | 24.11                   | 6.760             |                    |         |
| 4,600.0  | 4,543.5             | 4,602.0             | 4,563.3             | 15.3            | 13.8        | -148.19               | 357.2                             | -322.5     | 167.4                | 142.6                 | 24.77                   | 6.756             |                    |         |
| 4,700.0  | 4,641.6             | 4,701.9             | 4,661.9             | 15.7            | 14.1        | -147.91               | 369.0                             | -333.2     | 171.7                | 146.3                 | 25.43                   | 6.752             |                    |         |
| 4,800.0  | 4,739.8             | 4,801.8             | 4,760.5             | 16.2            | 14.5        | -147.65               | 380.9                             | -344.0     | 176.1                | 150.0                 | 26.10                   | 6.747             |                    |         |
| 4,900.0  | 4,838.0             | 4,901.7             | 4,859.1             | 16.6            | 14.9        | -147.40               | 392.7                             | -354.8     | 180.4                | 153.7                 | 26.76                   | 6.743             |                    |         |
| 5,000.0  | 4,936.2             | 5,001.6             | 4,957.7             | 17.0            | 15.2        | -147.16               | 404.6                             | -365.6     | 184.8                | 157.4                 | 27.42                   | 6.739             |                    |         |
| 5,100.0  | 5,034.4             | 5,100.0             | 5,054.9             | 17.4            | 15.6        | -146.94               | 416.2                             | -376.2     | 189.2                | 161.1                 | 28.08                   | 6.739             |                    |         |
| 5,122.6  | 5,056.6             | 5,122.3             | 5,076.9             | 17.5            | 15.7        | -146.94               | 418.7                             | -378.4     | 190.3                | 162.1                 | 28.20                   | 6.750             |                    |         |

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

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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        | 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)               |                   |                    |         |        |
| 5,200.0               | 5,132.8        | 5,196.0  | 5,149.9        | 17.8            | 15.9   | -147.05           | 426.1                  | -385.1     | 194.3           | 165.7            | 28.58              | 6.797             |                    |         |        |
| 5,300.0               | 5,231.7        | 5,291.2  | 5,244.6        | 18.1            | 16.1   | -147.27           | 433.5                  | -391.9     | 198.9           | 169.9            | 28.97              | 6.865             |                    |         |        |
| 5,400.0               | 5,331.1        | 5,386.2  | 5,339.4        | 18.3            | 16.3   | -147.59           | 438.6                  | -396.5     | 203.0           | 173.7            | 29.29              | 6.930             |                    |         |        |
| 5,500.0               | 5,430.8        | 5,481.2  | 5,434.2        | 18.5            | 16.4   | -148.00           | 441.4                  | -399.1     | 206.6           | 177.0            | 29.54              | 6.993             |                    |         |        |
| 5,600.0               | 5,530.7        | 5,577.6  | 5,530.7        | 18.7            | 16.6   | -148.47           | 441.9                  | -399.6     | 209.5           | 179.8            | 29.73              | 7.048             |                    |         |        |
| 5,669.3               | 5,600.0        | 5,646.9  | 5,600.0        | 18.7            | 16.7   | 179.88            | 441.9                  | -399.6     | 210.3           | 178.0            | 32.30              | 6.509             |                    |         |        |
| 5,700.0               | 5,630.7        | 5,677.6  | 5,630.7        | 18.8            | 16.7   | 179.88            | 441.9                  | -399.6     | 210.3           | 177.9            | 32.40              | 6.490             |                    |         |        |
| 5,800.0               | 5,730.7        | 5,777.6  | 5,730.7        | 18.9            | 16.9   | 179.88            | 441.9                  | -399.6     | 210.3           | 177.5            | 32.73              | 6.424             |                    |         |        |
| 5,872.6               | 5,803.2        | 5,850.2  | 5,803.2        | 19.0            | 17.0   | 179.88            | 441.9                  | -399.6     | 210.3           | 177.3            | 32.97              | 6.377             |                    |         |        |
| 5,898.1               | 5,828.7        | 5,875.7  | 5,828.7        | 19.1            | 17.0   | 90.00             | 441.9                  | -399.6     | 210.3           | 179.5            | 30.73              | 6.842             |                    |         |        |
| 5,900.0               | 5,830.7        | 5,877.6  | 5,830.7        | 19.1            | 17.1   | 90.02             | 441.9                  | -399.6     | 210.3           | 179.5            | 30.74              | 6.840             |                    |         |        |
| 5,950.0               | 5,880.5        | 5,927.5  | 5,880.5        | 19.1            | 17.1   | 90.95             | 441.9                  | -399.6     | 210.3           | 179.3            | 31.03              | 6.776             |                    |         |        |
| 6,000.0               | 5,930.1        | 5,977.6  | 5,930.6        | 19.1            | 17.2   | 92.36             | 441.9                  | -398.1     | 210.4           | 179.1            | 31.36              | 6.710             |                    |         |        |
| 6,050.0               | 5,979.1        | 6,028.1  | 5,980.8        | 19.2            | 17.2   | 93.76             | 441.9                  | -393.3     | 210.7           | 179.1            | 31.64              | 6.660             |                    |         |        |
| 6,100.0               | 6,027.3        | 6,078.9  | 6,031.0        | 19.2            | 17.3   | 95.15             | 441.9                  | -385.1     | 211.1           | 179.3            | 31.86              | 6.626             |                    |         |        |
| 6,150.0               | 6,074.6        | 6,130.1  | 6,080.9        | 19.1            | 17.3   | 96.51             | 441.9                  | -373.5     | 211.6           | 179.6            | 32.03              | 6.607             |                    |         |        |
| 6,200.0               | 6,120.7        | 6,181.6  | 6,130.2        | 19.1            | 17.3   | 97.85             | 441.9                  | -358.5     | 212.3           | 180.1            | 32.15              | 6.602             |                    |         |        |
| 6,250.0               | 6,165.5        | 6,233.5  | 6,178.7        | 19.1            | 17.2   | 99.14             | 441.9                  | -340.0     | 213.0           | 180.8            | 32.22              | 6.611             |                    |         |        |
| 6,300.0               | 6,208.7        | 6,285.8  | 6,226.1        | 19.0            | 17.2   | 100.40            | 441.9                  | -318.1     | 213.8           | 181.6            | 32.25              | 6.630             |                    |         |        |
| 6,350.0               | 6,250.2        | 6,338.4  | 6,272.3        | 19.0            | 17.2   | 101.60            | 441.9                  | -292.9     | 214.7           | 182.4            | 32.25              | 6.657             |                    |         |        |
| 6,400.0               | 6,289.7        | 6,391.4  | 6,316.9        | 18.9            | 17.1   | 102.75            | 441.9                  | -264.3     | 215.6           | 183.4            | 32.24              | 6.688             |                    |         |        |
| 6,450.0               | 6,327.2        | 6,444.7  | 6,359.6        | 18.9            | 17.0   | 103.83            | 441.9                  | -232.6     | 216.6           | 184.3            | 32.24              | 6.717             |                    |         |        |
| 6,500.0               | 6,362.5        | 6,498.3  | 6,400.3        | 18.8            | 17.0   | 104.85            | 441.9                  | -197.7     | 217.6           | 185.3            | 32.28              | 6.739             |                    |         |        |
| 6,550.0               | 6,395.3        | 6,552.2  | 6,438.7        | 18.7            | 17.0   | 105.80            | 441.9                  | -159.7     | 218.6           | 186.2            | 32.40              | 6.746             |                    |         |        |
| 6,600.0               | 6,425.6        | 6,606.5  | 6,474.5        | 18.7            | 16.9   | 106.67            | 441.9                  | -119.0     | 219.5           | 186.9            | 32.61              | 6.732             |                    |         |        |
| 6,650.0               | 6,453.3        | 6,661.0  | 6,507.4        | 18.6            | 16.9   | 107.47            | 441.9                  | -75.6      | 220.5           | 187.5            | 32.95              | 6.690             |                    |         |        |
| 6,700.0               | 6,478.1        | 6,715.8  | 6,537.4        | 18.6            | 17.0   | 108.18            | 441.9                  | -29.7      | 221.3           | 187.9            | 33.45              | 6.616             |                    |         |        |
| 6,750.0               | 6,500.1        | 6,770.8  | 6,564.0        | 18.5            | 17.2   | 108.81            | 441.9                  | 18.4       | 222.1           | 188.0            | 34.13              | 6.508             |                    |         |        |
| 6,800.0               | 6,519.1        | 6,826.0  | 6,587.2        | 18.5            | 17.6   | 109.35            | 441.9                  | 68.5       | 222.9           | 187.9            | 35.01              | 6.366             |                    |         |        |
| 6,850.0               | 6,535.0        | 6,881.4  | 6,606.8        | 18.6            | 18.2   | 109.81            | 441.9                  | 120.3      | 223.5           | 187.4            | 36.09              | 6.193             |                    |         |        |
| 6,900.0               | 6,547.8        | 6,936.9  | 6,622.6        | 19.4            | 19.0   | 110.18            | 441.9                  | 173.5      | 224.0           | 186.6            | 37.37              | 5.994             |                    |         |        |
| 6,950.0               | 6,557.4        | 6,992.6  | 6,634.6        | 20.2            | 19.8   | 110.46            | 441.9                  | 227.9      | 224.4           | 185.6            | 38.85              | 5.776             |                    |         |        |
| 7,000.0               | 6,563.7        | 7,048.4  | 6,642.5        | 21.1            | 20.8   | 110.64            | 441.9                  | 283.0      | 224.7           | 184.2            | 40.50              | 5.547             |                    |         |        |
| 7,050.0               | 6,566.9        | 7,104.2  | 6,646.4        | 22.1            | 21.8   | 110.74            | 441.9                  | 338.7      | 224.8           | 182.5            | 42.32              | 5.313             |                    |         |        |
| 7,075.9               | 6,567.2        | 7,133.1  | 6,646.8        | 22.6            | 22.3   | 110.75            | 441.9                  | 367.6      | 224.8           | 181.5            | 43.31              | 5.192             |                    |         |        |
| 7,100.0               | 6,567.1        | 7,157.3  | 6,646.7        | 23.0            | 22.8   | 110.74            | 441.9                  | 391.8      | 224.8           | 180.6            | 44.19              | 5.088             |                    |         |        |
| 7,200.0               | 6,566.6        | 7,257.3  | 6,646.2        | 25.1            | 24.9   | 110.72            | 441.9                  | 491.8      | 224.8           | 176.8            | 48.01              | 4.682             |                    |         |        |
| 7,300.0               | 6,566.2        | 7,357.3  | 6,645.6        | 27.3            | 27.1   | 110.69            | 441.9                  | 591.8      | 224.8           | 172.7            | 52.08              | 4.315             |                    |         |        |
| 7,400.0               | 6,565.8        | 7,457.3  | 6,645.1        | 29.6            | 29.4   | 110.67            | 441.9                  | 691.8      | 224.7           | 168.4            | 56.36              | 3.987             |                    |         |        |
| 7,500.0               | 6,565.3        | 7,557.3  | 6,644.5        | 32.0            | 31.7   | 110.64            | 441.9                  | 791.8      | 224.7           | 163.9            | 60.80              | 3.696             |                    |         |        |
| 7,600.0               | 6,564.9        | 7,657.3  | 6,644.0        | 34.4            | 34.2   | 110.62            | 441.9                  | 891.8      | 224.6           | 159.3            | 65.36              | 3.437             |                    |         |        |
| 7,700.0               | 6,564.5        | 7,757.3  | 6,643.5        | 36.9            | 36.6   | 110.59            | 441.9                  | 991.8      | 224.6           | 154.6            | 70.03              | 3.207             |                    |         |        |
| 7,800.0               | 6,564.0        | 7,857.3  | 6,642.9        | 39.4            | 39.2   | 110.57            | 441.9                  | 1,091.8    | 224.6           | 149.8            | 74.79              | 3.003             |                    |         |        |
| 7,900.0               | 6,563.6        | 7,957.3  | 6,642.4        | 42.0            | 41.7   | 110.54            | 441.9                  | 1,191.8    | 224.5           | 144.9            | 79.61              | 2.820             |                    |         |        |
| 8,000.0               | 6,563.1        | 8,057.3  | 6,641.8        | 44.6            | 44.3   | 110.52            | 441.9                  | 1,291.8    | 224.5           | 140.0            | 84.50              | 2.657             |                    |         |        |
| 8,100.0               | 6,562.7        | 8,157.3  | 6,641.3        | 47.2            | 46.9   | 110.49            | 441.9                  | 1,391.8    | 224.5           | 135.0            | 89.43              | 2.510             |                    |         |        |
| 8,200.0               | 6,562.3        | 8,257.3  | 6,640.8        | 49.8            | 49.6   | 110.47            | 441.9                  | 1,491.8    | 224.4           | 130.0            | 94.41              | 2.377             |                    |         |        |
| 8,300.0               | 6,561.8        | 8,357.3  | 6,640.2        | 52.5            | 52.2   | 110.44            | 441.9                  | 1,591.8    | 224.4           | 125.0            | 99.42              | 2.257             |                    |         |        |
| 8,400.0               | 6,561.4        | 8,457.3  | 6,639.7        | 55.1            | 54.9   | 110.42            | 441.9                  | 1,691.8    | 224.3           | 119.9            | 104.46             | 2.148             |                    |         |        |
| 8,500.0               | 6,561.0        | 8,557.3  | 6,639.1        | 57.8            | 57.6   | 110.39            | 441.9                  | 1,791.8    | 224.3           | 114.8            | 109.53             | 2.048             |                    |         |        |
| 8,600.0               | 6,560.5        | 8,657.3  | 6,638.6        | 60.5            | 60.3   | 110.37            | 441.9                  | 1,891.8    | 224.3           | 109.6            | 114.62             | 1.957             |                    |         |        |

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

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 8,700.0  | 6,560.1             | 8,757.3             | 6,638.1             | 63.2            | 63.0        | 110.34                | 441.9                             | 1,991.8    | 224.2                | 104.5                 | 119.73                  | 1.873             |                    |         |
| 8,800.0  | 6,559.7             | 8,857.3             | 6,637.5             | 65.9            | 65.7        | 110.32                | 441.9                             | 2,091.8    | 224.2                | 99.3                  | 124.86                  | 1.796             |                    |         |
| 8,900.0  | 6,559.2             | 8,957.3             | 6,637.0             | 68.6            | 68.4        | 110.29                | 441.9                             | 2,191.8    | 224.2                | 94.1                  | 130.01                  | 1.724             |                    |         |
| 9,000.0  | 6,558.8             | 9,057.3             | 6,636.4             | 71.4            | 71.2        | 110.27                | 441.9                             | 2,291.8    | 224.1                | 88.9                  | 135.17                  | 1.658             |                    |         |
| 9,100.0  | 6,558.3             | 9,157.3             | 6,635.9             | 74.1            | 73.9        | 110.24                | 441.9                             | 2,391.8    | 224.1                | 83.7                  | 140.35                  | 1.597             |                    |         |
| 9,200.0  | 6,557.9             | 9,257.3             | 6,635.3             | 76.8            | 76.6        | 110.22                | 441.9                             | 2,491.8    | 224.0                | 78.5                  | 145.53                  | 1.539             |                    |         |
| 9,300.0  | 6,557.5             | 9,357.3             | 6,634.8             | 79.6            | 79.4        | 110.19                | 441.9                             | 2,591.8    | 224.0                | 73.3                  | 150.73                  | 1.486 Level 3     |                    |         |
| 9,400.0  | 6,557.0             | 9,457.3             | 6,634.3             | 82.3            | 82.1        | 110.17                | 441.9                             | 2,691.8    | 224.0                | 68.0                  | 155.94                  | 1.436 Level 3     |                    |         |
| 9,500.0  | 6,556.6             | 9,557.3             | 6,633.7             | 85.1            | 84.9        | 110.14                | 441.9                             | 2,791.8    | 223.9                | 62.8                  | 161.16                  | 1.390 Level 3     |                    |         |
| 9,600.0  | 6,556.2             | 9,657.3             | 6,633.2             | 87.8            | 87.6        | 110.12                | 441.9                             | 2,891.7    | 223.9                | 57.5                  | 166.38                  | 1.346 Level 3     |                    |         |
| 9,700.0  | 6,555.7             | 9,757.3             | 6,632.6             | 90.6            | 90.4        | 110.09                | 441.9                             | 2,991.7    | 223.9                | 52.3                  | 171.61                  | 1.304 Level 3     |                    |         |
| 9,800.0  | 6,555.3             | 9,857.3             | 6,632.1             | 93.3            | 93.2        | 110.07                | 441.9                             | 3,091.7    | 223.8                | 47.0                  | 176.85                  | 1.266 Level 3     |                    |         |
| 9,900.0  | 6,554.9             | 9,957.3             | 6,631.6             | 96.1            | 95.9        | 110.04                | 441.9                             | 3,191.7    | 223.8                | 41.7                  | 182.10                  | 1.229 Level 2     |                    |         |
| 10,000.0   | 6,554.4             | 10,057.3            | 6,631.0             | 98.9            | 98.7        | 110.02                | 441.9                             | 3,291.7    | 223.8                | 36.4                  | 187.35                  | 1.194 Level 2     |                    |         |
| 10,100.0   | 6,554.0             | 10,157.3            | 6,630.5             | 101.6           | 101.5       | 109.99                | 441.9                             | 3,391.7    | 223.7                | 31.1                  | 192.61                  | 1.162 Level 2     |                    |         |
| 10,200.0   | 6,553.5             | 10,257.3            | 6,629.9             | 104.4           | 104.2       | 109.97                | 441.9                             | 3,491.7    | 223.7                | 25.8                  | 197.88                  | 1.130 Level 2     |                    |         |
| 10,300.0   | 6,553.1             | 10,357.3            | 6,629.4             | 107.2           | 107.0       | 109.94                | 441.9                             | 3,591.7    | 223.6                | 20.5                  | 203.15                  | 1.101 Level 2     |                    |         |
| 10,400.0   | 6,552.7             | 10,457.3            | 6,628.9             | 110.0           | 109.8       | 109.92                | 441.9                             | 3,691.7    | 223.6                | 15.2                  | 208.42                  | 1.073 Level 2     |                    |         |
| 10,500.0   | 6,552.2             | 10,557.3            | 6,628.3             | 112.7           | 112.6       | 109.89                | 441.9                             | 3,791.7    | 223.6                | 9.9                   | 213.70                  | 1.046 Level 2     |                    |         |
| 10,600.0   | 6,551.8             | 10,657.3            | 6,627.8             | 115.5           | 115.3       | 109.87                | 441.9                             | 3,891.7    | 223.5                | 4.6                   | 218.99                  | 1.021 Level 2     |                    |         |
| 10,700.0   | 6,551.4             | 10,757.3            | 6,627.2             | 118.3           | 118.1       | 109.84                | 441.9                             | 3,991.7    | 223.5                | -0.8                  | 224.27                  | 0.997 Level 1     |                    |         |
| 10,800.0   | 6,550.9             | 10,857.3            | 6,626.7             | 121.1           | 120.9       | 109.82                | 441.9                             | 4,091.7    | 223.5                | -6.1                  | 229.57                  | 0.973 Level 1     |                    |         |
| 10,900.0   | 6,550.5             | 10,957.3            | 6,626.1             | 123.8           | 123.7       | 109.79                | 441.9                             | 4,191.7    | 223.4                | -11.4                 | 234.86                  | 0.951 Level 1     |                    |         |
| 11,000.0   | 6,550.1             | 11,057.3            | 6,625.6             | 126.6           | 126.5       | 109.77                | 441.9                             | 4,291.7    | 223.4                | -16.8                 | 240.16                  | 0.930 Level 1     |                    |         |
| 11,100.0   | 6,549.6             | 11,157.3            | 6,625.1             | 129.4           | 129.3       | 109.74                | 441.9                             | 4,391.7    | 223.4                | -22.1                 | 245.47                  | 0.910 Level 1     |                    |         |
| 11,200.0   | 6,549.2             | 11,257.3            | 6,624.5             | 132.2           | 132.1       | 109.72                | 441.9                             | 4,491.7    | 223.3                | -27.4                 | 250.77                  | 0.891 Level 1     |                    |         |
| 11,300.0   | 6,548.8             | 11,357.3            | 6,624.0             | 135.0           | 134.8       | 109.69                | 441.9                             | 4,591.7    | 223.3                | -32.8                 | 256.08                  | 0.872 Level 1     |                    |         |
| 11,400.0   | 6,548.3             | 11,457.3            | 6,623.4             | 137.8           | 137.6       | 109.67                | 441.9                             | 4,691.7    | 223.3                | -38.1                 | 261.40                  | 0.854 Level 1     |                    |         |
| 11,500.0   | 6,547.9             | 11,557.3            | 6,622.9             | 140.6           | 140.4       | 109.64                | 441.9                             | 4,791.7    | 223.2                | -43.5                 | 266.71                  | 0.837 Level 1     |                    |         |
| 11,600.0   | 6,547.4             | 11,657.3            | 6,622.4             | 143.4           | 143.2       | 109.61                | 441.9                             | 4,891.7    | 223.2                | -48.9                 | 272.03                  | 0.820 Level 1     |                    |         |
| 11,700.0   | 6,547.0             | 11,757.3            | 6,621.8             | 146.1           | 146.0       | 109.59                | 441.9                             | 4,991.7    | 223.1                | -54.2                 | 277.36                  | 0.805 Level 1     |                    |         |
| 11,800.0   | 6,546.6             | 11,857.3            | 6,621.3             | 148.9           | 148.8       | 109.56                | 441.9                             | 5,091.7    | 223.1                | -59.6                 | 282.68                  | 0.789 Level 1     |                    |         |
| 11,900.0   | 6,546.1             | 11,957.3            | 6,620.7             | 151.7           | 151.6       | 109.54                | 442.0                             | 5,191.7    | 223.1                | -64.9                 | 288.01                  | 0.775 Level 1     |                    |         |
| 12,000.0   | 6,545.7             | 12,057.3            | 6,620.2             | 154.5           | 154.4       | 109.51                | 442.0                             | 5,291.7    | 223.0                | -70.3                 | 293.34                  | 0.760 Level 1     |                    |         |
| 12,100.0   | 6,545.3             | 12,157.3            | 6,619.7             | 157.3           | 157.2       | 109.49                | 442.0                             | 5,391.7    | 223.0                | -75.7                 | 298.68                  | 0.747 Level 1     |                    |         |
| 12,200.0   | 6,544.8             | 12,257.3            | 6,619.1             | 160.1           | 160.0       | 109.46                | 442.0                             | 5,491.7    | 223.0                | -81.0                 | 304.01                  | 0.733 Level 1     |                    |         |
| 12,300.0   | 6,544.4             | 12,357.3            | 6,618.6             | 162.9           | 162.8       | 109.44                | 442.0                             | 5,591.7    | 222.9                | -86.4                 | 309.35                  | 0.721 Level 1     |                    |         |
| 12,400.0   | 6,544.0             | 12,457.3            | 6,618.0             | 165.7           | 165.6       | 109.41                | 442.0                             | 5,691.7    | 222.9                | -91.8                 | 314.69                  | 0.708 Level 1     |                    |         |
| 12,500.0   | 6,543.5             | 12,557.3            | 6,617.5             | 168.5           | 168.3       | 109.39                | 442.0                             | 5,791.7    | 222.9                | -97.2                 | 320.04                  | 0.696 Level 1     |                    |         |
| 12,600.0   | 6,543.1             | 12,657.3            | 6,616.9             | 171.3           | 171.1       | 109.36                | 442.0                             | 5,891.7    | 222.8                | -102.6                | 325.38                  | 0.685 Level 1     |                    |         |
| 12,700.0   | 6,542.6             | 12,757.3            | 6,616.4             | 174.1           | 173.9       | 109.34                | 442.0                             | 5,991.7    | 222.8                | -107.9                | 330.73                  | 0.674 Level 1     |                    |         |
| 12,800.0   | 6,542.2             | 12,857.3            | 6,615.9             | 176.9           | 176.7       | 109.31                | 442.0                             | 6,091.7    | 222.8                | -113.3                | 336.08                  | 0.663 Level 1     |                    |         |
| 12,900.0   | 6,541.8             | 12,957.3            | 6,615.3             | 179.7           | 179.5       | 109.29                | 442.0                             | 6,191.7    | 222.7                | -118.7                | 341.43                  | 0.652 Level 1     |                    |         |
| 13,000.0   | 6,541.3             | 13,057.3            | 6,614.8             | 182.5           | 182.3       | 109.26                | 442.0                             | 6,291.7    | 222.7                | -124.1                | 346.79                  | 0.642 Level 1     |                    |         |
| 13,100.0   | 6,540.9             | 13,157.3            | 6,614.2             | 185.3           | 185.1       | 109.23                | 442.0                             | 6,391.7    | 222.7                | -129.5                | 352.15                  | 0.632 Level 1     |                    |         |
| 13,200.0   | 6,540.5             | 13,257.3            | 6,613.7             | 188.1           | 187.9       | 109.21                | 442.0                             | 6,491.7    | 222.6                | -134.9                | 357.51                  | 0.623 Level 1     |                    |         |
| 13,300.0   | 6,540.0             | 13,357.3            | 6,613.2             | 190.9           | 190.7       | 109.18                | 442.0                             | 6,591.7    | 222.6                | -140.3                | 362.87                  | 0.613 Level 1     |                    |         |
| 13,400.0   | 6,539.6             | 13,457.3            | 6,612.6             | 193.7           | 193.5       | 109.16                | 442.0                             | 6,691.7    | 222.5                | -145.7                | 368.23                  | 0.604 Level 1     |                    |         |
| 13,500.0   | 6,539.2             | 13,557.3            | 6,612.1             | 196.5           | 196.3       | 109.13                | 442.0                             | 6,791.7    | 222.5                | -151.1                | 373.60                  | 0.596 Level 1     |                    |         |
| 13,600.0   | 6,538.7             | 13,657.3            | 6,611.5             | 199.3           | 199.1       | 109.11                | 442.0                             | 6,891.7    | 222.5                | -156.5                | 378.96                  | 0.587 Level 1     |                    |         |
| 13,700.0   | 6,538.3             | 13,757.3            | 6,611.0             | 202.1           | 201.9       | 109.08                | 442.0                             | 6,991.7    | 222.4                | -161.9                | 384.33                  | 0.579 Level 1     |                    |         |

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

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extension (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 |                    |         |
| 13,800.0   | 6,537.8             | 13,857.3            | 6,610.5             | 204.9           | 204.7       | 109.06                | 442.0                             | 7,091.7    | 222.4                | -167.3                | 389.70                  | 0.571             | Level 1            |         |
| 13,900.0   | 6,537.4             | 13,957.3            | 6,609.9             | 207.7           | 207.5       | 109.03                | 442.0                             | 7,191.7    | 222.4                | -172.7                | 395.08                  | 0.563             | Level 1            |         |
| 14,000.0   | 6,537.0             | 14,057.3            | 6,609.4             | 210.5           | 210.3       | 109.01                | 442.0                             | 7,291.7    | 222.3                | -178.1                | 400.45                  | 0.555             | Level 1            |         |
| 14,100.0   | 6,536.5             | 14,157.3            | 6,608.8             | 213.3           | 213.1       | 108.98                | 442.0                             | 7,391.7    | 222.3                | -183.5                | 405.83                  | 0.548             | Level 1            |         |
| 14,200.0   | 6,536.1             | 14,257.3            | 6,608.3             | 216.1           | 215.9       | 108.95                | 442.0                             | 7,491.7    | 222.3                | -188.9                | 411.21                  | 0.541             | Level 1            |         |
| 14,300.0   | 6,535.7             | 14,357.3            | 6,607.8             | 218.9           | 218.7       | 108.93                | 442.0                             | 7,591.7    | 222.2                | -194.4                | 416.59                  | 0.533             | Level 1            |         |
| 14,400.0   | 6,535.2             | 14,457.3            | 6,607.2             | 221.7           | 221.5       | 108.90                | 442.0                             | 7,691.7    | 222.2                | -199.8                | 421.97                  | 0.527             | Level 1            |         |
| 14,500.0   | 6,534.8             | 14,557.3            | 6,606.7             | 224.5           | 224.3       | 108.88                | 442.0                             | 7,791.7    | 222.2                | -205.2                | 427.36                  | 0.520             | Level 1            |         |
| 14,600.0   | 6,534.4             | 14,657.3            | 6,606.1             | 227.3           | 227.1       | 108.85                | 442.0                             | 7,891.7    | 222.1                | -210.6                | 432.75                  | 0.513             | Level 1            |         |
| 14,700.0   | 6,533.9             | 14,757.3            | 6,605.6             | 230.1           | 229.9       | 108.83                | 442.0                             | 7,991.7    | 222.1                | -216.0                | 438.13                  | 0.507             | Level 1            |         |
| 14,800.0   | 6,533.5             | 14,857.3            | 6,605.0             | 232.9           | 232.7       | 108.80                | 442.0                             | 8,091.7    | 222.1                | -221.5                | 443.52                  | 0.501             | Level 1            |         |
| 14,900.0   | 6,533.0             | 14,957.3            | 6,604.5             | 235.7           | 235.5       | 108.78                | 442.0                             | 8,191.7    | 222.0                | -226.9                | 448.92                  | 0.495             | Level 1            |         |
| 15,000.0   | 6,532.6             | 15,057.3            | 6,604.0             | 238.5           | 238.4       | 108.75                | 442.0                             | 8,291.7    | 222.0                | -232.3                | 454.31                  | 0.489             | Level 1            |         |
| 15,100.0   | 6,532.2             | 15,157.3            | 6,603.4             | 241.3           | 241.2       | 108.73                | 442.0                             | 8,391.7    | 222.0                | -237.7                | 459.71                  | 0.483             | Level 1            |         |
| 15,200.0   | 6,531.7             | 15,257.3            | 6,602.9             | 244.1           | 244.0       | 108.70                | 442.0                             | 8,491.7    | 221.9                | -243.2                | 465.10                  | 0.477             | Level 1            |         |
| 15,300.0   | 6,531.3             | 15,357.3            | 6,602.3             | 246.9           | 246.8       | 108.67                | 442.0                             | 8,591.7    | 221.9                | -248.6                | 470.50                  | 0.472             | Level 1            |         |
| 15,400.0   | 6,530.9             | 15,457.3            | 6,601.8             | 249.7           | 249.6       | 108.65                | 442.0                             | 8,691.7    | 221.9                | -254.0                | 475.90                  | 0.466             | Level 1            |         |
| 15,500.0   | 6,530.4             | 15,557.3            | 6,601.3             | 252.5           | 252.4       | 108.62                | 442.0                             | 8,791.7    | 221.8                | -259.5                | 481.30                  | 0.461             | Level 1            |         |
| 15,600.0   | 6,530.0             | 15,657.3            | 6,600.7             | 255.3           | 255.2       | 108.60                | 442.0                             | 8,891.7    | 221.8                | -264.9                | 486.71                  | 0.456             | Level 1            |         |
| 15,700.0   | 6,529.6             | 15,757.3            | 6,600.2             | 258.1           | 258.0       | 108.57                | 442.0                             | 8,991.7    | 221.8                | -270.4                | 492.11                  | 0.451             | Level 1            |         |
| 15,800.0   | 6,529.1             | 15,857.3            | 6,599.6             | 260.9           | 260.8       | 108.55                | 442.0                             | 9,091.7    | 221.7                | -275.8                | 497.52                  | 0.446             | Level 1            |         |
| 15,900.0   | 6,528.7             | 15,957.3            | 6,599.1             | 263.7           | 263.6       | 108.52                | 442.0                             | 9,191.7    | 221.7                | -281.2                | 502.93                  | 0.441             | Level 1            |         |
| 16,000.0   | 6,528.2             | 16,057.3            | 6,598.6             | 266.5           | 266.4       | 108.49                | 442.0                             | 9,291.7    | 221.7                | -286.7                | 508.34                  | 0.436             | Level 1            |         |
| 16,100.0   | 6,527.8             | 16,157.3            | 6,598.0             | 269.3           | 269.2       | 108.47                | 442.0                             | 9,391.7    | 221.6                | -292.1                | 513.75                  | 0.431             | Level 1            |         |
| 16,200.0   | 6,527.4             | 16,257.3            | 6,597.5             | 272.1           | 272.0       | 108.44                | 442.0                             | 9,491.6    | 221.6                | -297.6                | 519.17                  | 0.427             | Level 1            |         |
| 16,284.8   | 6,527.0             | 16,342.1            | 6,597.0             | 274.5           | 274.4       | 108.42                | 442.0                             | 9,576.5    | 221.6                | -302.2                | 523.76                  | 0.423             | Level 1, ES, SF    |         |

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 |
| 0.0   | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | 129.59                | -38.3                             | 46.3       | 60.0                 |                       |                         |                    |         |
| 100.0   | 100.0               | 100.0               | 100.0               | 0.1             | 0.1         | 129.59                | -38.3                             | 46.3       | 60.0                 | 59.8                  | 0.22                    | 267.045            |         |
| 200.0   | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | 129.59                | -38.3                             | 46.3       | 60.0                 | 59.3                  | 0.67                    | 89.015             |         |
| 300.0   | 300.0               | 300.0               | 300.0               | 0.6             | 0.6         | 129.59                | -38.3                             | 46.3       | 60.0                 | 58.9                  | 1.12                    | 53.409             |         |
| 400.0   | 400.0               | 400.0               | 400.0               | 0.8             | 0.8         | 129.59                | -38.3                             | 46.3       | 60.0                 | 58.4                  | 1.57                    | 38.149             |         |
| 500.0   | 500.0               | 500.0               | 500.0               | 1.0             | 1.0         | 129.59                | -38.3                             | 46.3       | 60.0                 | 58.0                  | 2.02                    | 29.672             |         |
| 600.0   | 600.0               | 600.0               | 600.0               | 1.2             | 1.2         | 129.59                | -38.3                             | 46.3       | 60.0                 | 57.6                  | 2.47                    | 24.277             |         |
| 700.0   | 700.0               | 700.0               | 700.0               | 1.5             | 1.5         | 129.59                | -38.3                             | 46.3       | 60.0                 | 57.1                  | 2.92                    | 20.542             |         |
| 800.0   | 800.0               | 800.0               | 800.0               | 1.7             | 1.7         | 129.59                | -38.3                             | 46.3       | 60.0                 | 56.7                  | 3.37                    | 17.803             |         |
| 900.0   | 900.0               | 900.0               | 900.0               | 1.9             | 1.9         | 129.59                | -38.3                             | 46.3       | 60.0                 | 56.2                  | 3.82                    | 15.709             |         |
| 1,000.0   | 1,000.0             | 1,000.0             | 1,000.0             | 2.1             | 2.1         | 129.59                | -38.3                             | 46.3       | 60.0                 | 55.8                  | 4.27                    | 14.055 CC, ES      |         |
| 1,100.0   | 1,100.0             | 1,100.0             | 1,100.0             | 2.4             | 2.4         | 161.50                | -38.3                             | 46.3       | 61.3                 | 56.5                  | 4.72                    | 12.985             |         |
| 1,200.0   | 1,199.9             | 1,199.9             | 1,199.9             | 2.6             | 2.6         | 162.58                | -38.3                             | 46.3       | 65.0                 | 59.8                  | 5.16                    | 12.589             |         |
| 1,300.0   | 1,299.7             | 1,299.7             | 1,299.7             | 2.8             | 2.8         | 164.13                | -38.3                             | 46.3       | 71.3                 | 65.7                  | 5.61                    | 12.710             |         |
| 1,400.0   | 1,399.3             | 1,399.3             | 1,399.3             | 3.0             | 3.0         | 165.89                | -38.3                             | 46.3       | 80.1                 | 74.1                  | 6.05                    | 13.244             |         |
| 1,500.0   | 1,498.6             | 1,499.3             | 1,499.3             | 3.3             | 3.2         | 168.43                | -38.8                             | 45.1       | 91.2                 | 84.7                  | 6.47                    | 14.094             |         |
| 1,600.0   | 1,597.5             | 1,598.9             | 1,598.8             | 3.6             | 3.4         | 172.05                | -40.5                             | 41.6       | 104.3                | 97.4                  | 6.87                    | 15.182             |         |
| 1,700.0   | 1,696.1             | 1,697.9             | 1,697.6             | 3.9             | 3.6         | 176.18                | -43.3                             | 35.8       | 119.9                | 112.6                 | 7.28                    | 16.471             |         |
| 1,729.0   | 1,724.6             | 1,726.5             | 1,726.1             | 4.0             | 3.7         | 177.41                | -44.4                             | 33.7       | 124.9                | 117.5                 | 7.40                    | 16.881             |         |
| 1,800.0   | 1,794.3             | 1,796.3             | 1,795.6             | 4.2             | 3.8         | -179.57               | -47.3                             | 27.8       | 137.6                | 129.9                 | 7.72                    | 17.841             |         |
| 1,900.0   | 1,892.5             | 1,894.2             | 1,892.8             | 4.5             | 4.1         | -175.38               | -52.2                             | 17.6       | 156.0                | 147.8                 | 8.18                    | 19.069             |         |
| 2,000.0   | 1,990.7             | 1,991.7             | 1,989.3             | 4.9             | 4.3         | -171.33               | -58.2                             | 5.3        | 175.1                | 166.4                 | 8.68                    | 20.183             |         |
| 2,100.0   | 2,088.8             | 2,089.1             | 2,085.8             | 5.2             | 4.6         | -167.97               | -64.3                             | -7.2       | 194.9                | 185.7                 | 9.19                    | 21.203             |         |
| 2,200.0   | 2,187.0             | 2,186.5             | 2,182.2             | 5.6             | 4.8         | -165.22               | -70.5                             | -19.8      | 215.3                | 205.6                 | 9.73                    | 22.130             |         |
| 2,300.0   | 2,285.2             | 2,284.0             | 2,278.6             | 6.0             | 5.1         | -162.95               | -76.6                             | -32.4      | 236.0                | 225.8                 | 10.28                   | 22.966             |         |
| 2,400.0   | 2,383.4             | 2,381.4             | 2,375.0             | 6.4             | 5.4         | -161.04               | -82.7                             | -45.0      | 257.1                | 246.2                 | 10.84                   | 23.719             |         |
| 2,500.0   | 2,481.6             | 2,478.8             | 2,471.4             | 6.8             | 5.7         | -159.43               | -88.9                             | -57.6      | 278.4                | 267.0                 | 11.41                   | 24.397             |         |
| 2,600.0   | 2,579.8             | 2,576.2             | 2,567.8             | 7.2             | 6.0         | -158.04               | -95.0                             | -70.2      | 299.8                | 287.9                 | 11.99                   | 25.008             |         |
| 2,700.0   | 2,678.0             | 2,673.7             | 2,664.3             | 7.6             | 6.3         | -156.84               | -101.1                            | -82.7      | 321.5                | 308.9                 | 12.58                   | 25.559             |         |
| 2,800.0   | 2,776.1             | 2,771.1             | 2,760.7             | 8.0             | 6.6         | -155.79               | -107.3                            | -95.3      | 343.2                | 330.0                 | 13.17                   | 26.058             |         |
| 2,900.0   | 2,874.3             | 2,868.5             | 2,857.1             | 8.4             | 6.9         | -154.87               | -113.4                            | -107.9     | 365.0                | 351.3                 | 13.77                   | 26.511             |         |
| 3,000.0   | 2,972.5             | 2,966.0             | 2,953.5             | 8.8             | 7.2         | -154.04               | -119.6                            | -120.5     | 386.9                | 372.6                 | 14.37                   | 26.923             |         |
| 3,100.0   | 3,070.7             | 3,063.4             | 3,049.9             | 9.2             | 7.6         | -153.31               | -125.7                            | -133.1     | 408.9                | 393.9                 | 14.98                   | 27.299             |         |
| 3,200.0   | 3,168.9             | 3,160.8             | 3,146.3             | 9.6             | 7.9         | -152.65               | -131.8                            | -145.7     | 430.9                | 415.4                 | 15.59                   | 27.643             |         |
| 3,300.0   | 3,267.1             | 3,258.2             | 3,242.8             | 10.0            | 8.2         | -152.06               | -138.0                            | -158.2     | 453.0                | 436.8                 | 16.20                   | 27.959             |         |
| 3,400.0   | 3,365.2             | 3,355.7             | 3,339.2             | 10.4            | 8.5         | -151.52               | -144.1                            | -170.8     | 475.2                | 458.3                 | 16.82                   | 28.250             |         |
| 3,500.0   | 3,463.4             | 3,453.1             | 3,435.6             | 10.8            | 8.9         | -151.03               | -150.2                            | -183.4     | 497.3                | 479.9                 | 17.44                   | 28.518             |         |
| 3,600.0   | 3,561.6             | 3,550.5             | 3,532.0             | 11.2            | 9.2         | -150.58               | -156.4                            | -196.0     | 519.5                | 501.5                 | 18.06                   | 28.766             |         |
| 3,700.0   | 3,659.8             | 3,648.0             | 3,628.4             | 11.6            | 9.5         | -150.17               | -162.5                            | -208.6     | 541.7                | 523.1                 | 18.68                   | 28.996             |         |
| 3,800.0   | 3,758.0             | 3,745.4             | 3,724.9             | 12.0            | 9.8         | -149.79               | -168.6                            | -221.2     | 564.0                | 544.7                 | 19.31                   | 29.210             |         |
| 3,900.0   | 3,856.2             | 3,842.8             | 3,821.3             | 12.4            | 10.2        | -149.43               | -174.8                            | -233.8     | 586.3                | 566.3                 | 19.93                   | 29.409             |         |
| 4,000.0   | 3,954.4             | 3,940.2             | 3,917.7             | 12.8            | 10.5        | -149.11               | -180.9                            | -246.3     | 608.5                | 588.0                 | 20.56                   | 29.595             |         |
| 4,100.0   | 4,052.5             | 4,037.7             | 4,014.1             | 13.3            | 10.9        | -148.81               | -187.0                            | -258.9     | 630.8                | 609.7                 | 21.19                   | 29.769             |         |
| 4,200.0   | 4,150.7             | 4,135.1             | 4,110.5             | 13.7            | 11.2        | -148.52               | -193.2                            | -271.5     | 653.2                | 631.3                 | 21.82                   | 29.932             |         |
| 4,300.0   | 4,248.9             | 4,232.5             | 4,206.9             | 14.1            | 11.5        | -148.26               | -199.3                            | -284.1     | 675.5                | 653.1                 | 22.45                   | 30.085             |         |
| 4,400.0   | 4,347.1             | 4,330.0             | 4,303.4             | 14.5            | 11.9        | -148.01               | -205.5                            | -296.7     | 697.9                | 674.8                 | 23.09                   | 30.228             |         |
| 4,500.0   | 4,445.3             | 4,427.4             | 4,399.8             | 14.9            | 12.2        | -147.78               | -211.6                            | -309.3     | 720.2                | 696.5                 | 23.72                   | 30.364             |         |
| 4,600.0   | 4,543.5             | 4,524.8             | 4,496.2             | 15.3            | 12.5        | -147.57               | -217.7                            | -321.8     | 742.6                | 718.2                 | 24.35                   | 30.491             |         |
| 4,700.0   | 4,641.6             | 4,622.2             | 4,592.6             | 15.7            | 12.9        | -147.36               | -223.9                            | -334.4     | 765.0                | 740.0                 | 24.99                   | 30.612             |         |
| 4,800.0   | 4,739.8             | 4,719.7             | 4,689.0             | 16.2            | 13.2        | -147.17               | -230.0                            | -347.0     | 787.4                | 761.7                 | 25.63                   | 30.726             |         |
| 4,900.0   | 4,838.0             | 4,817.1             | 4,785.4             | 16.6            | 13.6        | -146.99               | -236.1                            | -359.6     | 809.8                | 783.5                 | 26.26                   | 30.834             |         |

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



|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 |
| 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            |  |        |
| 5,000.0   | 4,936.2             | 4,914.5             | 4,881.9             | 17.0            | 13.9        | -146.81               | -242.3                            | -372.2     | 832.2                | 805.3                 | 26.90                   | 30.937            |                    |  |        |
| 5,100.0   | 5,034.4             | 5,026.2             | 4,992.7             | 17.4            | 14.2        | -146.74               | -248.5                            | -384.9     | 853.8                | 826.3                 | 27.51                   | 31.032            |                    |  |        |
| 5,122.6   | 5,056.6             | 5,051.9             | 5,018.1             | 17.5            | 14.3        | -146.77               | -249.6                            | -387.3     | 858.5                | 830.8                 | 27.64                   | 31.058            |                    |  |        |
| 5,200.0   | 5,132.8             | 5,140.0             | 5,106.0             | 17.8            | 14.5        | -147.06               | -252.8                            | -393.8     | 872.8                | 844.8                 | 28.08                   | 31.081            |                    |  |        |
| 5,300.0   | 5,231.7             | 5,254.8             | 5,220.6             | 18.1            | 14.7        | -147.49               | -255.2                            | -398.8     | 887.3                | 858.7                 | 28.55                   | 31.075            |                    |  |        |
| 5,400.0   | 5,331.1             | 5,365.2             | 5,331.1             | 18.3            | 14.9        | -147.96               | -255.7                            | -399.7     | 897.1                | 868.2                 | 28.95                   | 30.987            |                    |  |        |
| 5,500.0   | 5,430.8             | 5,464.9             | 5,430.8             | 18.5            | 15.0        | -148.28               | -255.7                            | -399.7     | 903.6                | 874.3                 | 29.30                   | 30.840            |                    |  |        |
| 5,600.0   | 5,530.7             | 5,564.8             | 5,530.7             | 18.7            | 15.2        | -148.46               | -255.7                            | -399.7     | 907.2                | 877.6                 | 29.62                   | 30.630            |                    |  |        |
| 5,669.3   | 5,600.0             | 5,634.2             | 5,600.0             | 18.7            | 15.3        | 179.98                | -255.7                            | -399.7     | 907.9                | 877.6                 | 30.31                   | 29.951            |                    |  |        |
| 5,700.0   | 5,630.7             | 5,664.8             | 5,630.7             | 18.8            | 15.3        | 179.98                | -255.7                            | -399.7     | 907.9                | 877.5                 | 30.41                   | 29.852            |                    |  |        |
| 5,800.0   | 5,730.7             | 5,764.8             | 5,730.7             | 18.9            | 15.5        | 179.98                | -255.7                            | -399.7     | 907.9                | 877.2                 | 30.75                   | 29.522            |                    |  |        |
| 5,848.2   | 5,778.9             | 5,813.1             | 5,778.9             | 19.0            | 15.6        | 179.98                | -255.7                            | -399.7     | 907.9                | 877.0                 | 30.92                   | 29.365            |                    |  |        |
| 5,872.6   | 5,803.2             | 5,837.4             | 5,803.2             | 19.0            | 15.6        | 179.98                | -255.7                            | -399.7     | 907.9                | 876.9                 | 31.00                   | 29.286            |                    |  |        |
| 5,900.0   | 5,830.7             | 5,864.8             | 5,830.6             | 19.1            | 15.7        | 89.98                 | -255.7                            | -399.2     | 907.9                | 877.3                 | 30.61                   | 29.663            |                    |  |        |
| 5,950.0   | 5,880.5             | 5,914.8             | 5,880.5             | 19.1            | 15.7        | 89.98                 | -255.7                            | -395.8     | 907.9                | 877.2                 | 30.71                   | 29.561            |                    |  |        |
| 6,000.0   | 5,930.1             | 5,964.8             | 5,930.0             | 19.1            | 15.7        | 89.98                 | -255.7                            | -389.1     | 907.9                | 877.1                 | 30.78                   | 29.501            |                    |  |        |
| 6,050.0   | 5,979.1             | 6,014.7             | 5,979.0             | 19.2            | 15.7        | 89.98                 | -255.7                            | -379.1     | 907.9                | 877.1                 | 30.80                   | 29.479            |                    |  |        |
| 6,100.0   | 6,027.3             | 6,064.7             | 6,027.2             | 19.2            | 15.7        | 89.98                 | -255.7                            | -366.0     | 907.9                | 877.1                 | 30.79                   | 29.487            |                    |  |        |
| 6,150.0   | 6,074.6             | 6,114.7             | 6,074.5             | 19.1            | 15.7        | 89.97                 | -255.7                            | -349.8     | 907.9                | 877.2                 | 30.76                   | 29.519            |                    |  |        |
| 6,200.0   | 6,120.7             | 6,164.7             | 6,120.5             | 19.1            | 15.7        | 89.97                 | -255.7                            | -330.5     | 907.9                | 877.2                 | 30.71                   | 29.564            |                    |  |        |
| 6,250.0   | 6,165.5             | 6,214.6             | 6,165.3             | 19.1            | 15.6        | 89.97                 | -255.7                            | -308.3     | 907.9                | 877.2                 | 30.66                   | 29.611            |                    |  |        |
| 6,300.0   | 6,208.7             | 6,264.6             | 6,208.5             | 19.0            | 15.6        | 89.97                 | -255.7                            | -283.1     | 907.9                | 877.3                 | 30.63                   | 29.644            |                    |  |        |
| 6,350.0   | 6,250.2             | 6,314.6             | 6,249.9             | 19.0            | 15.6        | 89.97                 | -255.7                            | -255.2     | 907.9                | 877.3                 | 30.62                   | 29.647            |                    |  |        |
| 6,400.0   | 6,289.7             | 6,364.6             | 6,289.4             | 18.9            | 15.6        | 89.97                 | -255.7                            | -224.7     | 907.9                | 877.2                 | 30.67                   | 29.599            |                    |  |        |
| 6,450.0   | 6,327.2             | 6,414.5             | 6,326.9             | 18.9            | 15.6        | 89.97                 | -255.7                            | -191.6     | 907.9                | 877.1                 | 30.80                   | 29.482            |                    |  |        |
| 6,500.0   | 6,362.5             | 6,464.5             | 6,362.1             | 18.8            | 15.6        | 89.97                 | -255.7                            | -156.2     | 907.9                | 876.9                 | 31.01                   | 29.274            |                    |  |        |
| 6,550.0   | 6,395.3             | 6,514.5             | 6,394.9             | 18.7            | 15.7        | 89.97                 | -255.7                            | -118.5     | 907.9                | 876.6                 | 31.35                   | 28.960            |                    |  |        |
| 6,600.0   | 6,425.6             | 6,564.4             | 6,425.2             | 18.7            | 15.9        | 89.97                 | -255.7                            | -78.8      | 907.9                | 876.1                 | 31.82                   | 28.529            |                    |  |        |
| 6,650.0   | 6,453.3             | 6,614.4             | 6,452.8             | 18.6            | 16.1        | 89.97                 | -255.7                            | -37.1      | 907.9                | 875.5                 | 32.45                   | 27.977            |                    |  |        |
| 6,700.0   | 6,478.1             | 6,664.3             | 6,477.7             | 18.6            | 16.5        | 89.97                 | -255.7                            | 6.2        | 907.9                | 874.7                 | 33.25                   | 27.310            |                    |  |        |
| 6,750.0   | 6,500.1             | 6,714.3             | 6,499.6             | 18.5            | 16.9        | 89.97                 | -255.7                            | 51.1       | 907.9                | 873.7                 | 34.21                   | 26.539            |                    |  |        |
| 6,800.0   | 6,519.1             | 6,764.3             | 6,518.6             | 18.5            | 17.4        | 89.97                 | -255.7                            | 97.3       | 907.9                | 872.6                 | 35.35                   | 25.685            |                    |  |        |
| 6,850.0   | 6,535.0             | 6,814.2             | 6,534.5             | 18.6            | 18.1        | 89.97                 | -255.7                            | 144.6      | 907.9                | 871.3                 | 36.65                   | 24.771            |                    |  |        |
| 6,900.0   | 6,547.8             | 6,864.2             | 6,547.3             | 19.4            | 18.8        | 89.97                 | -255.7                            | 192.9      | 907.9                | 869.8                 | 38.11                   | 23.823            |                    |  |        |
| 6,950.0   | 6,557.4             | 6,914.2             | 6,556.9             | 20.2            | 19.6        | 89.97                 | -255.7                            | 242.0      | 907.9                | 868.2                 | 39.71                   | 22.863            |                    |  |        |
| 7,000.0   | 6,563.7             | 6,964.1             | 6,563.3             | 21.1            | 20.4        | 89.97                 | -255.7                            | 291.5      | 907.9                | 866.5                 | 41.43                   | 21.914            |                    |  |        |
| 7,050.0   | 6,566.9             | 7,014.1             | 6,566.4             | 22.1            | 21.3        | 89.97                 | -255.7                            | 341.4      | 907.9                | 864.7                 | 43.25                   | 20.993            |                    |  |        |
| 7,075.9   | 6,567.2             | 7,040.0             | 6,566.7             | 22.6            | 21.8        | 89.97                 | -255.7                            | 367.3      | 907.9                | 863.7                 | 44.22                   | 20.530            |                    |  |        |
| 7,100.0   | 6,567.1             | 7,064.1             | 6,566.6             | 23.0            | 22.3        | 89.97                 | -255.7                            | 391.4      | 907.9                | 862.7                 | 45.16                   | 20.106            |                    |  |        |
| 7,200.0   | 6,566.6             | 7,164.1             | 6,566.0             | 25.1            | 24.3        | 89.96                 | -255.7                            | 491.4      | 907.9                | 858.7                 | 49.23                   | 18.442            |                    |  |        |
| 7,300.0   | 6,566.2             | 7,264.1             | 6,565.4             | 27.3            | 26.5        | 89.95                 | -255.7                            | 591.4      | 907.9                | 854.3                 | 53.57                   | 16.948            |                    |  |        |
| 7,400.0   | 6,565.8             | 7,364.1             | 6,564.8             | 29.6            | 28.8        | 89.94                 | -255.7                            | 691.3      | 907.9                | 849.8                 | 58.13                   | 15.618            |                    |  |        |
| 7,500.0   | 6,565.3             | 7,464.1             | 6,564.2             | 32.0            | 31.2        | 89.93                 | -255.7                            | 791.3      | 907.9                | 845.0                 | 62.87                   | 14.442            |                    |  |        |
| 7,600.0   | 6,564.9             | 7,564.1             | 6,563.6             | 34.4            | 33.6        | 89.92                 | -255.7                            | 891.3      | 907.9                | 840.2                 | 67.73                   | 13.404            |                    |  |        |
| 7,700.0   | 6,564.5             | 7,664.1             | 6,563.0             | 36.9            | 36.1        | 89.91                 | -255.7                            | 991.3      | 907.9                | 835.2                 | 72.71                   | 12.486            |                    |  |        |
| 7,800.0   | 6,564.0             | 7,764.1             | 6,562.4             | 39.4            | 38.6        | 89.90                 | -255.7                            | 1,091.3    | 907.9                | 830.1                 | 77.78                   | 11.673            |                    |  |        |
| 7,900.0   | 6,563.6             | 7,864.1             | 6,561.8             | 42.0            | 41.2        | 89.89                 | -255.7                            | 1,191.3    | 907.9                | 825.0                 | 82.92                   | 10.950            |                    |  |        |
| 8,000.0   | 6,563.1             | 7,964.1             | 6,561.2             | 44.6            | 43.8        | 89.88                 | -255.7                            | 1,291.3    | 907.9                | 819.8                 | 88.11                   | 10.304            |                    |  |        |
| 8,100.0   | 6,562.7             | 8,064.1             | 6,560.6             | 47.2            | 46.4        | 89.87                 | -255.7                            | 1,391.3    | 907.9                | 814.5                 | 93.36                   | 9.725             |                    |  |        |
| 8,200.0   | 6,562.3             | 8,164.1             | 6,560.1             | 49.8            | 49.1        | 89.86                 | -255.7                            | 1,491.3    | 907.9                | 809.3                 | 98.64                   | 9.204             |                    |  |        |
| 8,300.0   | 6,561.8             | 8,264.1             | 6,559.5             | 52.5            | 51.8        | 89.85                 | -255.7                            | 1,591.3    | 907.9                | 803.9                 | 103.96                  | 8.733             |                    |  |        |

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



|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 |
| 8,400.0   | 6,561.4             | 8,364.1             | 6,558.9             | 55.1            | 54.4        | 89.84                 | -255.7                            | 1,691.3    | 907.9                | 798.6                 | 109.32                  | 8.305              |         |
| 8,500.0   | 6,561.0             | 8,464.1             | 6,558.3             | 57.8            | 57.1        | 89.83                 | -255.7                            | 1,791.3    | 907.9                | 793.2                 | 114.69                  | 7.916              |         |
| 8,600.0   | 6,560.5             | 8,564.1             | 6,557.7             | 60.5            | 59.8        | 89.82                 | -255.7                            | 1,891.3    | 907.9                | 787.8                 | 120.09                  | 7.560              |         |
| 8,700.0   | 6,560.1             | 8,664.1             | 6,557.1             | 63.2            | 62.5        | 89.81                 | -255.7                            | 1,991.3    | 907.9                | 782.4                 | 125.51                  | 7.234              |         |
| 8,708.1   | 6,560.1             | 8,672.2             | 6,557.0             | 63.4            | 62.8        | 89.81                 | -255.7                            | 1,999.4    | 907.9                | 782.0                 | 125.95                  | 7.208              |         |
| 8,800.0   | 6,559.7             | 8,764.1             | 6,556.5             | 65.9            | 65.3        | 89.80                 | -255.7                            | 2,091.3    | 907.9                | 777.0                 | 130.95                  | 6.933              |         |
| 8,900.0   | 6,559.2             | 8,864.1             | 6,555.9             | 68.6            | 68.0        | 89.79                 | -255.7                            | 2,191.3    | 907.9                | 771.5                 | 136.40                  | 6.656              |         |
| 9,000.0   | 6,558.8             | 8,964.1             | 6,555.3             | 71.4            | 70.7        | 89.78                 | -255.7                            | 2,291.3    | 907.9                | 766.0                 | 141.86                  | 6.400              |         |
| 9,100.0   | 6,558.3             | 9,064.1             | 6,554.7             | 74.1            | 73.5        | 89.77                 | -255.7                            | 2,391.3    | 907.9                | 760.6                 | 147.34                  | 6.162              |         |
| 9,200.0   | 6,557.9             | 9,164.1             | 6,554.1             | 76.8            | 76.2        | 89.76                 | -255.7                            | 2,491.3    | 907.9                | 755.1                 | 152.82                  | 5.941              |         |
| 9,300.0   | 6,557.5             | 9,264.1             | 6,553.5             | 79.6            | 78.9        | 89.75                 | -255.7                            | 2,591.3    | 907.9                | 749.6                 | 158.32                  | 5.735              |         |
| 9,400.0   | 6,557.0             | 9,364.1             | 6,552.9             | 82.3            | 81.7        | 89.74                 | -255.7                            | 2,691.3    | 907.9                | 744.1                 | 163.82                  | 5.542              |         |
| 9,500.0   | 6,556.6             | 9,464.1             | 6,552.3             | 85.1            | 84.5        | 89.73                 | -255.7                            | 2,791.3    | 907.9                | 738.6                 | 169.33                  | 5.362              |         |
| 9,600.0   | 6,556.2             | 9,564.1             | 6,551.7             | 87.8            | 87.2        | 89.72                 | -255.7                            | 2,891.3    | 907.9                | 733.1                 | 174.85                  | 5.192              |         |
| 9,700.0   | 6,555.7             | 9,664.1             | 6,551.1             | 90.6            | 90.0        | 89.71                 | -255.7                            | 2,991.3    | 907.9                | 727.5                 | 180.37                  | 5.033              |         |
| 9,800.0   | 6,555.3             | 9,764.1             | 6,550.6             | 93.3            | 92.7        | 89.70                 | -255.7                            | 3,091.3    | 907.9                | 722.0                 | 185.90                  | 4.884              |         |
| 9,900.0   | 6,554.9             | 9,864.1             | 6,550.0             | 96.1            | 95.5        | 89.69                 | -255.7                            | 3,191.3    | 907.9                | 716.5                 | 191.44                  | 4.743              |         |
| 10,000.0  | 6,554.4             | 9,964.1             | 6,549.4             | 98.9            | 98.3        | 89.68                 | -255.7                            | 3,291.3    | 907.9                | 710.9                 | 196.98                  | 4.609              |         |
| 10,100.0  | 6,554.0             | 10,064.1            | 6,548.8             | 101.6           | 101.1       | 89.67                 | -255.7                            | 3,391.3    | 907.9                | 705.4                 | 202.52                  | 4.483              |         |
| 10,200.0  | 6,553.5             | 10,164.1            | 6,548.2             | 104.4           | 103.8       | 89.66                 | -255.7                            | 3,491.3    | 907.9                | 699.8                 | 208.07                  | 4.363              |         |
| 10,300.0  | 6,553.1             | 10,264.1            | 6,547.6             | 107.2           | 106.6       | 89.65                 | -255.7                            | 3,591.3    | 907.9                | 694.3                 | 213.62                  | 4.250              |         |
| 10,400.0  | 6,552.7             | 10,364.1            | 6,547.0             | 110.0           | 109.4       | 89.64                 | -255.7                            | 3,691.3    | 907.9                | 688.7                 | 219.18                  | 4.142              |         |
| 10,500.0  | 6,552.2             | 10,464.1            | 6,546.4             | 112.7           | 112.2       | 89.63                 | -255.7                            | 3,791.3    | 907.9                | 683.2                 | 224.74                  | 4.040              |         |
| 10,600.0  | 6,551.8             | 10,564.1            | 6,545.8             | 115.5           | 115.0       | 89.62                 | -255.7                            | 3,891.3    | 907.9                | 677.6                 | 230.30                  | 3.942              |         |
| 10,700.0  | 6,551.4             | 10,664.1            | 6,545.2             | 118.3           | 117.7       | 89.61                 | -255.7                            | 3,991.3    | 907.9                | 672.0                 | 235.86                  | 3.849              |         |
| 10,800.0  | 6,550.9             | 10,764.1            | 6,544.6             | 121.1           | 120.5       | 89.60                 | -255.7                            | 4,091.3    | 907.9                | 666.5                 | 241.43                  | 3.761              |         |
| 10,900.0  | 6,550.5             | 10,864.1            | 6,544.0             | 123.8           | 123.3       | 89.59                 | -255.7                            | 4,191.3    | 907.9                | 660.9                 | 247.00                  | 3.676              |         |
| 11,000.0  | 6,550.1             | 10,964.1            | 6,543.4             | 126.6           | 126.1       | 89.58                 | -255.7                            | 4,291.3    | 907.9                | 655.3                 | 252.57                  | 3.595              |         |
| 11,100.0  | 6,549.6             | 11,064.1            | 6,542.8             | 129.4           | 128.9       | 89.57                 | -255.7                            | 4,391.3    | 907.9                | 649.8                 | 258.15                  | 3.517              |         |
| 11,200.0  | 6,549.2             | 11,164.1            | 6,542.2             | 132.2           | 131.7       | 89.56                 | -255.7                            | 4,491.3    | 907.9                | 644.2                 | 263.72                  | 3.443              |         |
| 11,300.0  | 6,548.8             | 11,264.1            | 6,541.7             | 135.0           | 134.5       | 89.55                 | -255.7                            | 4,591.3    | 907.9                | 638.6                 | 269.30                  | 3.371              |         |
| 11,400.0  | 6,548.3             | 11,364.1            | 6,541.1             | 137.8           | 137.2       | 89.54                 | -255.7                            | 4,691.3    | 907.9                | 633.0                 | 274.88                  | 3.303              |         |
| 11,500.0  | 6,547.9             | 11,464.1            | 6,540.5             | 140.6           | 140.0       | 89.53                 | -255.7                            | 4,791.3    | 907.9                | 627.5                 | 280.46                  | 3.237              |         |
| 11,600.0  | 6,547.4             | 11,564.1            | 6,539.9             | 143.4           | 142.8       | 89.52                 | -255.7                            | 4,891.3    | 907.9                | 621.9                 | 286.04                  | 3.174              |         |
| 11,700.0  | 6,547.0             | 11,664.1            | 6,539.3             | 146.1           | 145.6       | 89.51                 | -255.7                            | 4,991.3    | 907.9                | 616.3                 | 291.62                  | 3.113              |         |
| 11,800.0  | 6,546.6             | 11,764.1            | 6,538.7             | 148.9           | 148.4       | 89.50                 | -255.7                            | 5,091.3    | 907.9                | 610.7                 | 297.21                  | 3.055              |         |
| 11,900.0  | 6,546.1             | 11,864.1            | 6,538.1             | 151.7           | 151.2       | 89.49                 | -255.7                            | 5,191.3    | 907.9                | 605.1                 | 302.79                  | 2.998              |         |
| 12,000.0  | 6,545.7             | 11,964.1            | 6,537.5             | 154.5           | 154.0       | 89.48                 | -255.7                            | 5,291.3    | 907.9                | 599.5                 | 308.38                  | 2.944              |         |
| 12,100.0  | 6,545.3             | 12,064.1            | 6,536.9             | 157.3           | 156.8       | 89.47                 | -255.7                            | 5,391.3    | 907.9                | 593.9                 | 313.97                  | 2.892              |         |
| 12,200.0  | 6,544.8             | 12,164.1            | 6,536.3             | 160.1           | 159.6       | 89.46                 | -255.7                            | 5,491.3    | 907.9                | 588.4                 | 319.56                  | 2.841              |         |
| 12,300.0  | 6,544.4             | 12,264.1            | 6,535.7             | 162.9           | 162.4       | 89.45                 | -255.7                            | 5,591.3    | 907.9                | 582.8                 | 325.15                  | 2.792              |         |
| 12,400.0  | 6,544.0             | 12,364.1            | 6,535.1             | 165.7           | 165.2       | 89.44                 | -255.7                            | 5,691.3    | 907.9                | 577.2                 | 330.74                  | 2.745              |         |
| 12,500.0  | 6,543.5             | 12,464.1            | 6,534.5             | 168.5           | 168.0       | 89.43                 | -255.7                            | 5,791.3    | 907.9                | 571.6                 | 336.33                  | 2.699              |         |
| 12,600.0  | 6,543.1             | 12,564.1            | 6,533.9             | 171.3           | 170.8       | 89.42                 | -255.7                            | 5,891.3    | 907.9                | 566.0                 | 341.92                  | 2.655              |         |
| 12,700.0  | 6,542.6             | 12,664.1            | 6,533.3             | 174.1           | 173.6       | 89.41                 | -255.7                            | 5,991.2    | 907.9                | 560.4                 | 347.52                  | 2.613              |         |
| 12,800.0  | 6,542.2             | 12,764.1            | 6,532.8             | 176.9           | 176.4       | 89.40                 | -255.7                            | 6,091.2    | 907.9                | 554.8                 | 353.11                  | 2.571              |         |
| 12,900.0  | 6,541.8             | 12,864.1            | 6,532.2             | 179.7           | 179.2       | 89.39                 | -255.7                            | 6,191.2    | 907.9                | 549.2                 | 358.71                  | 2.531              |         |
| 13,000.0  | 6,541.3             | 12,964.1            | 6,531.6             | 182.5           | 182.0       | 89.38                 | -255.7                            | 6,291.2    | 907.9                | 543.6                 | 364.30                  | 2.492              |         |
| 13,100.0  | 6,540.9             | 13,064.1            | 6,531.0             | 185.3           | 184.8       | 89.37                 | -255.7                            | 6,391.2    | 907.9                | 538.0                 | 369.90                  | 2.455              |         |
| 13,200.0  | 6,540.5             | 13,164.1            | 6,530.4             | 188.1           | 187.6       | 89.36                 | -255.7                            | 6,491.2    | 907.9                | 532.4                 | 375.50                  | 2.418              |         |
| 13,300.0  | 6,540.0             | 13,264.1            | 6,529.8             | 190.9           | 190.4       | 89.35                 | -255.7                            | 6,591.2    | 907.9                | 526.8                 | 381.09                  | 2.382              |         |

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

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extension (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 (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 |   |         |                    |  |        |  |
| 13,400.0              | 6,539.6             | 13,364.1            | 6,529.2             | 193.7           | 193.2       | 89.34                 | -255.7                            | 6,691.2    | 907.9                | 521.2                 | 386.69                  | 2.348             |   |         |                    |  |        |  |
| 13,500.0              | 6,539.2             | 13,464.1            | 6,528.6             | 196.5           | 196.0       | 89.33                 | -255.7                            | 6,791.2    | 907.9                | 515.6                 | 392.29                  | 2.314             |   |         |                    |  |        |  |
| 13,600.0              | 6,538.7             | 13,564.1            | 6,528.0             | 199.3           | 198.8       | 89.32                 | -255.7                            | 6,891.2    | 907.9                | 510.0                 | 397.89                  | 2.282             |   |         |                    |  |        |  |
| 13,700.0              | 6,538.3             | 13,664.1            | 6,527.4             | 202.1           | 201.6       | 89.31                 | -255.7                            | 6,991.2    | 907.9                | 504.4                 | 403.49                  | 2.250             |   |         |                    |  |        |  |
| 13,800.0              | 6,537.8             | 13,764.1            | 6,526.8             | 204.9           | 204.4       | 89.30                 | -255.7                            | 7,091.2    | 907.9                | 498.8                 | 409.09                  | 2.219             |   |         |                    |  |        |  |
| 13,900.0              | 6,537.4             | 13,864.1            | 6,526.2             | 207.7           | 207.2       | 89.29                 | -255.7                            | 7,191.2    | 907.9                | 493.2                 | 414.69                  | 2.189             |   |         |                    |  |        |  |
| 14,000.0              | 6,537.0             | 13,964.1            | 6,525.6             | 210.5           | 210.0       | 89.28                 | -255.7                            | 7,291.2    | 907.9                | 487.6                 | 420.29                  | 2.160             |   |         |                    |  |        |  |
| 14,100.0              | 6,536.5             | 14,064.1            | 6,525.0             | 213.3           | 212.8       | 89.27                 | -255.7                            | 7,391.2    | 907.9                | 482.0                 | 425.90                  | 2.132             |   |         |                    |  |        |  |
| 14,200.0              | 6,536.1             | 14,164.1            | 6,524.4             | 216.1           | 215.6       | 89.26                 | -255.7                            | 7,491.2    | 907.9                | 476.4                 | 431.50                  | 2.104             |   |         |                    |  |        |  |
| 14,300.0              | 6,535.7             | 14,264.1            | 6,523.9             | 218.9           | 218.4       | 89.25                 | -255.7                            | 7,591.2    | 907.9                | 470.8                 | 437.10                  | 2.077             |   |         |                    |  |        |  |
| 14,400.0              | 6,535.2             | 14,364.1            | 6,523.3             | 221.7           | 221.2       | 89.24                 | -255.7                            | 7,691.2    | 907.9                | 465.2                 | 442.70                  | 2.051             |   |         |                    |  |        |  |
| 14,500.0              | 6,534.8             | 14,464.1            | 6,522.7             | 224.5           | 224.0       | 89.24                 | -255.7                            | 7,791.2    | 907.9                | 459.6                 | 448.31                  | 2.025             |   |         |                    |  |        |  |
| 14,600.0              | 6,534.4             | 14,564.1            | 6,522.1             | 227.3           | 226.8       | 89.23                 | -255.7                            | 7,891.2    | 907.9                | 454.0                 | 453.91                  | 2.000             |   |         |                    |  |        |  |
| 14,700.0              | 6,533.9             | 14,664.1            | 6,521.5             | 230.1           | 229.6       | 89.22                 | -255.7                            | 7,991.2    | 907.9                | 448.4                 | 459.51                  | 1.976             |   |         |                    |  |        |  |
| 14,800.0              | 6,533.5             | 14,764.1            | 6,520.9             | 232.9           | 232.4       | 89.21                 | -255.7                            | 8,091.2    | 908.0                | 442.8                 | 465.12                  | 1.952             |   |         |                    |  |        |  |
| 14,900.0              | 6,533.0             | 14,864.1            | 6,520.3             | 235.7           | 235.2       | 89.20                 | -255.7                            | 8,191.2    | 908.0                | 437.2                 | 470.72                  | 1.929             |   |         |                    |  |        |  |
| 15,000.0              | 6,532.6             | 14,964.1            | 6,519.7             | 238.5           | 238.0       | 89.19                 | -255.7                            | 8,291.2    | 908.0                | 431.6                 | 476.33                  | 1.906             |   |         |                    |  |        |  |
| 15,100.0              | 6,532.2             | 15,064.1            | 6,519.1             | 241.3           | 240.8       | 89.18                 | -255.7                            | 8,391.2    | 908.0                | 426.0                 | 481.93                  | 1.884             |   |         |                    |  |        |  |
| 15,200.0              | 6,531.7             | 15,164.1            | 6,518.5             | 244.1           | 243.6       | 89.17                 | -255.7                            | 8,491.2    | 908.0                | 420.4                 | 487.54                  | 1.862             |   |         |                    |  |        |  |
| 15,300.0              | 6,531.3             | 15,264.1            | 6,517.9             | 246.9           | 246.4       | 89.16                 | -255.7                            | 8,591.2    | 908.0                | 414.8                 | 493.14                  | 1.841             |   |         |                    |  |        |  |
| 15,400.0              | 6,530.9             | 15,364.1            | 6,517.3             | 249.7           | 249.2       | 89.15                 | -255.7                            | 8,691.2    | 908.0                | 409.2                 | 498.75                  | 1.820             |   |         |                    |  |        |  |
| 15,500.0              | 6,530.4             | 15,464.1            | 6,516.7             | 252.5           | 252.0       | 89.14                 | -255.7                            | 8,791.2    | 908.0                | 403.6                 | 504.35                  | 1.800             |   |         |                    |  |        |  |
| 15,600.0              | 6,530.0             | 15,564.1            | 6,516.1             | 255.3           | 254.8       | 89.13                 | -255.7                            | 8,891.2    | 908.0                | 398.0                 | 509.96                  | 1.780             |   |         |                    |  |        |  |
| 15,700.0              | 6,529.6             | 15,664.1            | 6,515.5             | 258.1           | 257.6       | 89.12                 | -255.7                            | 8,991.2    | 908.0                | 392.4                 | 515.57                  | 1.761             |   |         |                    |  |        |  |
| 15,800.0              | 6,529.1             | 15,764.1            | 6,515.0             | 260.9           | 260.4       | 89.11                 | -255.7                            | 9,091.2    | 908.0                | 386.8                 | 521.17                  | 1.742             |   |         |                    |  |        |  |
| 15,900.0              | 6,528.7             | 15,864.1            | 6,514.4             | 263.7           | 263.2       | 89.10                 | -255.7                            | 9,191.2    | 908.0                | 381.2                 | 526.78                  | 1.724             |   |         |                    |  |        |  |
| 16,000.0              | 6,528.2             | 15,964.1            | 6,513.8             | 266.5           | 266.0       | 89.09                 | -255.7                            | 9,291.2    | 908.0                | 375.6                 | 532.39                  | 1.705             |   |         |                    |  |        |  |
| 16,100.0              | 6,527.8             | 16,064.1            | 6,513.2             | 269.3           | 268.8       | 89.08                 | -255.7                            | 9,391.2    | 908.0                | 370.0                 | 537.99                  | 1.688             |   |         |                    |  |        |  |
| 16,200.0              | 6,527.4             | 16,164.1            | 6,512.6             | 272.1           | 271.7       | 89.07                 | -255.7                            | 9,491.2    | 908.0                | 364.4                 | 543.60                  | 1.670             |   |         |                    |  |        |  |
| 16,284.8              | 6,527.0             | 16,248.9            | 6,512.1             | 274.5           | 274.0       | 89.06                 | -255.7                            | 9,576.0    | 908.0                | 359.6                 | 548.36                  | 1.656 SF          |   |         |                    |  |        |  |

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 |
| 0.0   | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | 129.86                | -19.3                             | 23.1       | 30.1                 |                       |                         |                    |         |
| 100.0   | 100.0               | 100.0               | 100.0               | 0.1             | 0.1         | 129.86                | -19.3                             | 23.1       | 30.1                 | 29.9                  | 0.22                    | 134.041            |         |
| 200.0   | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | 129.86                | -19.3                             | 23.1       | 30.1                 | 29.5                  | 0.67                    | 44.680             |         |
| 300.0   | 300.0               | 300.0               | 300.0               | 0.6             | 0.6         | 129.86                | -19.3                             | 23.1       | 30.1                 | 29.0                  | 1.12                    | 26.808             |         |
| 400.0   | 400.0               | 400.0               | 400.0               | 0.8             | 0.8         | 129.86                | -19.3                             | 23.1       | 30.1                 | 28.6                  | 1.57                    | 19.149             |         |
| 500.0   | 500.0               | 500.0               | 500.0               | 1.0             | 1.0         | 129.86                | -19.3                             | 23.1       | 30.1                 | 28.1                  | 2.02                    | 14.893             |         |
| 600.0   | 600.0               | 600.0               | 600.0               | 1.2             | 1.2         | 129.86                | -19.3                             | 23.1       | 30.1                 | 27.7                  | 2.47                    | 12.186             |         |
| 700.0   | 700.0               | 700.0               | 700.0               | 1.5             | 1.5         | 129.86                | -19.3                             | 23.1       | 30.1                 | 27.2                  | 2.92                    | 10.311             |         |
| 800.0   | 800.0               | 800.0               | 800.0               | 1.7             | 1.7         | 129.86                | -19.3                             | 23.1       | 30.1                 | 26.8                  | 3.37                    | 8.936              |         |
| 900.0   | 900.0               | 900.0               | 900.0               | 1.9             | 1.9         | 129.86                | -19.3                             | 23.1       | 30.1                 | 26.3                  | 3.82                    | 7.885              |         |
| 1,000.0   | 1,000.0             | 1,000.0             | 1,000.0             | 2.1             | 2.1         | 129.86                | -19.3                             | 23.1       | 30.1                 | 25.9                  | 4.27                    | 7.055 CC           |         |
| 1,100.0   | 1,100.0             | 1,100.0             | 1,100.0             | 2.4             | 2.4         | 162.14                | -19.3                             | 23.1       | 31.4                 | 26.7                  | 4.72                    | 6.649              |         |
| 1,200.0   | 1,199.9             | 1,199.9             | 1,199.9             | 2.6             | 2.6         | 164.09                | -19.3                             | 23.1       | 35.1                 | 30.0                  | 5.16                    | 6.803              |         |
| 1,300.0   | 1,299.7             | 1,299.7             | 1,299.7             | 2.8             | 2.8         | 166.54                | -19.3                             | 23.1       | 41.5                 | 35.9                  | 5.61                    | 7.394              |         |
| 1,400.0   | 1,399.3             | 1,399.3             | 1,399.3             | 3.0             | 3.0         | 168.94                | -19.3                             | 23.1       | 50.4                 | 44.4                  | 6.05                    | 8.333              |         |
| 1,500.0   | 1,498.6             | 1,498.6             | 1,498.6             | 3.3             | 3.3         | 171.00                | -19.3                             | 23.1       | 62.0                 | 55.5                  | 6.49                    | 9.554              |         |
| 1,600.0   | 1,597.5             | 1,597.5             | 1,597.5             | 3.6             | 3.5         | 172.66                | -19.3                             | 23.1       | 76.2                 | 69.3                  | 6.92                    | 11.004             |         |
| 1,700.0   | 1,696.1             | 1,698.1             | 1,698.1             | 3.9             | 3.7         | 174.42                | -18.9                             | 21.9       | 92.0                 | 84.6                  | 7.35                    | 12.514             |         |
| 1,729.0   | 1,724.6             | 1,727.3             | 1,727.2             | 4.0             | 3.8         | 175.01                | -18.6                             | 21.1       | 96.6                 | 89.2                  | 7.47                    | 12.936             |         |
| 1,800.0   | 1,794.3             | 1,799.0             | 1,798.9             | 4.2             | 3.9         | 176.57                | -17.6                             | 18.3       | 107.6                | 99.8                  | 7.78                    | 13.829             |         |
| 1,900.0   | 1,892.5             | 1,900.3             | 1,900.0             | 4.5             | 4.1         | 178.94                | -15.3                             | 12.0       | 121.4                | 113.2                 | 8.23                    | 14.748             |         |
| 2,000.0   | 1,990.7             | 2,002.1             | 2,001.4             | 4.9             | 4.4         | -178.43               | -12.2                             | 3.2        | 133.3                | 124.6                 | 8.70                    | 15.331             |         |
| 2,100.0   | 2,088.8             | 2,104.1             | 2,102.7             | 5.2             | 4.6         | -175.51               | -8.1                              | -8.1       | 143.5                | 134.3                 | 9.18                    | 15.634             |         |
| 2,200.0   | 2,187.0             | 2,204.6             | 2,202.1             | 5.6             | 4.9         | -172.43               | -3.4                              | -21.4      | 152.4                | 142.8                 | 9.68                    | 15.745             |         |
| 2,300.0   | 2,285.2             | 2,303.9             | 2,300.4             | 6.0             | 5.1         | -169.67               | 1.4                               | -34.7      | 161.6                | 151.4                 | 10.20                   | 15.840             |         |
| 2,400.0   | 2,383.4             | 2,403.1             | 2,398.7             | 6.4             | 5.4         | -167.21               | 6.2                               | -48.0      | 171.1                | 160.4                 | 10.74                   | 15.929             |         |
| 2,500.0   | 2,481.6             | 2,502.4             | 2,496.9             | 6.8             | 5.7         | -165.01               | 11.0                              | -61.4      | 180.9                | 169.6                 | 11.30                   | 16.009             |         |
| 2,600.0   | 2,579.8             | 2,601.7             | 2,595.2             | 7.2             | 6.0         | -163.04               | 15.7                              | -74.7      | 191.0                | 179.1                 | 11.88                   | 16.082             |         |
| 2,700.0   | 2,678.0             | 2,701.0             | 2,693.5             | 7.6             | 6.3         | -161.27               | 20.5                              | -88.0      | 201.2                | 188.8                 | 12.46                   | 16.146             |         |
| 2,800.0   | 2,776.1             | 2,800.3             | 2,791.8             | 8.0             | 6.6         | -159.66               | 25.3                              | -101.3     | 211.6                | 198.6                 | 13.06                   | 16.202             |         |
| 2,900.0   | 2,874.3             | 2,899.6             | 2,890.0             | 8.4             | 6.9         | -158.21               | 30.1                              | -114.6     | 222.2                | 208.5                 | 13.67                   | 16.251             |         |
| 3,000.0   | 2,972.5             | 2,998.9             | 2,988.3             | 8.8             | 7.2         | -156.90               | 34.8                              | -127.9     | 232.9                | 218.6                 | 14.29                   | 16.294             |         |
| 3,100.0   | 3,070.7             | 3,098.2             | 3,086.6             | 9.2             | 7.5         | -155.69               | 39.6                              | -141.3     | 243.7                | 228.8                 | 14.92                   | 16.332             |         |
| 3,200.0   | 3,168.9             | 3,197.5             | 3,184.9             | 9.6             | 7.8         | -154.59               | 44.4                              | -154.6     | 254.6                | 239.0                 | 15.56                   | 16.364             |         |
| 3,300.0   | 3,267.1             | 3,296.8             | 3,283.2             | 10.0            | 8.1         | -153.58               | 49.2                              | -167.9     | 265.6                | 249.4                 | 16.20                   | 16.393             |         |
| 3,400.0   | 3,365.2             | 3,396.0             | 3,381.4             | 10.4            | 8.5         | -152.66               | 53.9                              | -181.2     | 276.7                | 259.8                 | 16.85                   | 16.418             |         |
| 3,500.0   | 3,463.4             | 3,495.3             | 3,479.7             | 10.8            | 8.8         | -151.80               | 58.7                              | -194.5     | 287.8                | 270.3                 | 17.50                   | 16.441             |         |
| 3,600.0   | 3,561.6             | 3,594.6             | 3,578.0             | 11.2            | 9.1         | -151.00               | 63.5                              | -207.9     | 299.0                | 280.8                 | 18.16                   | 16.460             |         |
| 3,700.0   | 3,659.8             | 3,693.9             | 3,676.3             | 11.6            | 9.4         | -150.27               | 68.2                              | -221.2     | 310.2                | 291.4                 | 18.83                   | 16.478             |         |
| 3,800.0   | 3,758.0             | 3,793.2             | 3,774.5             | 12.0            | 9.8         | -149.58               | 73.0                              | -234.5     | 321.5                | 302.0                 | 19.49                   | 16.494             |         |
| 3,900.0   | 3,856.2             | 3,892.5             | 3,872.8             | 12.4            | 10.1        | -148.94               | 77.8                              | -247.8     | 332.8                | 312.7                 | 20.16                   | 16.508             |         |
| 4,000.0   | 3,954.4             | 3,991.8             | 3,971.1             | 12.8            | 10.4        | -148.35               | 82.6                              | -261.1     | 344.2                | 323.4                 | 20.83                   | 16.520             |         |
| 4,100.0   | 4,052.5             | 4,091.1             | 4,069.4             | 13.3            | 10.8        | -147.79               | 87.3                              | -274.5     | 355.6                | 334.1                 | 21.51                   | 16.532             |         |
| 4,200.0   | 4,150.7             | 4,190.4             | 4,167.6             | 13.7            | 11.1        | -147.27               | 92.1                              | -287.8     | 367.0                | 344.8                 | 22.19                   | 16.542             |         |
| 4,300.0   | 4,248.9             | 4,289.7             | 4,265.9             | 14.1            | 11.4        | -146.77               | 96.9                              | -301.1     | 378.5                | 355.6                 | 22.87                   | 16.551             |         |
| 4,400.0   | 4,347.1             | 4,388.9             | 4,364.2             | 14.5            | 11.8        | -146.31               | 101.7                             | -314.4     | 390.0                | 366.4                 | 23.55                   | 16.560             |         |
| 4,500.0   | 4,445.3             | 4,488.2             | 4,462.5             | 14.9            | 12.1        | -145.88               | 106.4                             | -327.7     | 401.5                | 377.2                 | 24.23                   | 16.567             |         |
| 4,600.0   | 4,543.5             | 4,587.5             | 4,560.8             | 15.3            | 12.4        | -145.46               | 111.2                             | -341.0     | 413.0                | 388.1                 | 24.92                   | 16.575             |         |
| 4,700.0   | 4,641.6             | 4,686.8             | 4,659.0             | 15.7            | 12.8        | -145.07               | 116.0                             | -354.4     | 424.6                | 399.0                 | 25.61                   | 16.581             |         |
| 4,800.0   | 4,739.8             | 4,786.1             | 4,757.3             | 16.2            | 13.1        | -144.70               | 120.7                             | -367.7     | 436.1                | 409.8                 | 26.29                   | 16.587             |         |
| 4,900.0   | 4,838.0             | 4,882.7             | 4,853.0             | 16.6            | 13.4        | -144.45               | 125.2                             | -380.0     | 447.9                | 421.0                 | 26.93                   | 16.631             |         |

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

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design         |                | Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-212 - Wellbore #1 - Plan #1 Extended (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        | 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)               |                   |                    |         |        |
| 5,000.0               | 4,936.2        | 4,977.7   | 4,947.5        | 17.0            | 13.6   | -144.56           | 128.5                  | -389.4     | 460.6           | 433.1            | 27.46              | 16.771            |                    |         |        |
| 5,100.0               | 5,034.4        | 5,072.4   | 5,041.9        | 17.4            | 13.8   | -145.04           | 130.8                  | -395.8     | 474.1           | 446.2            | 27.92              | 16.982            |                    |         |        |
| 5,122.6               | 5,056.6        | 5,093.7   | 5,063.2        | 17.5            | 13.9   | -145.19           | 131.2                  | -396.8     | 477.3           | 449.3            | 28.02              | 17.038            |                    |         |        |
| 5,200.0               | 5,132.8        | 5,166.6   | 5,136.0        | 17.8            | 14.0   | -145.89           | 132.0                  | -399.2     | 487.9           | 459.5            | 28.31              | 17.230            |                    |         |        |
| 5,300.0               | 5,231.7        | 5,262.2   | 5,231.7        | 18.1            | 14.2   | -146.85           | 132.3                  | -399.9     | 499.8           | 471.2            | 28.62              | 17.466            |                    |         |        |
| 5,400.0               | 5,331.1        | 5,361.6   | 5,331.1        | 18.3            | 14.3   | -147.63           | 132.3                  | -399.9     | 509.2           | 480.3            | 28.91              | 17.610            |                    |         |        |
| 5,500.0               | 5,430.8        | 5,461.3   | 5,430.8        | 18.5            | 14.5   | -148.16           | 132.3                  | -399.9     | 515.7           | 486.5            | 29.21              | 17.654            |                    |         |        |
| 5,600.0               | 5,530.7        | 5,561.2   | 5,530.7        | 18.7            | 14.7   | -148.44           | 132.3                  | -399.9     | 519.2           | 489.7            | 29.49              | 17.603            |                    |         |        |
| 5,669.3               | 5,600.0        | 5,630.5   | 5,600.0        | 18.7            | 14.8   | -179.99           | 132.3                  | -399.9     | 519.9           | 489.9            | 30.00              | 17.329            |                    |         |        |
| 5,700.0               | 5,630.7        | 5,661.2   | 5,630.7        | 18.8            | 14.9   | -179.99           | 132.3                  | -399.9     | 519.9           | 489.8            | 30.11              | 17.268            |                    |         |        |
| 5,800.0               | 5,730.7        | 5,761.2   | 5,730.7        | 18.9            | 15.0   | -179.99           | 132.3                  | -399.9     | 519.9           | 489.5            | 30.47              | 17.065            |                    |         |        |
| 5,872.6               | 5,803.2        | 5,833.8   | 5,803.2        | 19.0            | 15.2   | -179.99           | 132.3                  | -399.9     | 519.9           | 489.2            | 30.73              | 16.919            |                    |         |        |
| 5,900.0               | 5,830.7        | 5,861.2   | 5,830.6        | 19.1            | 15.2   | -89.99            | 132.3                  | -399.4     | 519.9           | 489.4            | 30.50              | 17.044            |                    |         |        |
| 5,950.0               | 5,880.5        | 5,911.2   | 5,880.5        | 19.1            | 15.3   | -89.99            | 132.3                  | -396.0     | 519.9           | 489.3            | 30.62              | 16.982            |                    |         |        |
| 6,000.0               | 5,930.1        | 5,961.2   | 5,930.0        | 19.1            | 15.3   | -89.99            | 132.3                  | -389.3     | 519.9           | 489.2            | 30.69              | 16.944            |                    |         |        |
| 6,050.0               | 5,979.1        | 6,011.2   | 5,979.0        | 19.2            | 15.3   | -89.99            | 132.3                  | -379.4     | 519.9           | 489.2            | 30.72              | 16.925            |                    |         |        |
| 6,100.0               | 6,027.3        | 6,061.2   | 6,027.3        | 19.2            | 15.3   | -89.99            | 132.3                  | -366.3     | 519.9           | 489.2            | 30.72              | 16.924            |                    |         |        |
| 6,150.0               | 6,074.6        | 6,111.2   | 6,074.6        | 19.1            | 15.3   | -89.99            | 132.3                  | -350.1     | 519.9           | 489.2            | 30.70              | 16.935            |                    |         |        |
| 6,200.0               | 6,120.7        | 6,161.2   | 6,120.7        | 19.1            | 15.3   | -89.99            | 132.3                  | -330.8     | 519.9           | 489.2            | 30.67              | 16.952            |                    |         |        |
| 6,250.0               | 6,165.5        | 6,211.1   | 6,165.4        | 19.1            | 15.3   | -89.99            | 132.3                  | -308.6     | 519.9           | 489.3            | 30.64              | 16.969            |                    |         |        |
| 6,300.0               | 6,208.7        | 6,261.1   | 6,208.7        | 19.0            | 15.2   | -89.99            | 132.3                  | -283.4     | 519.9           | 489.3            | 30.62              | 16.978            |                    |         |        |
| 6,350.0               | 6,250.2        | 6,311.1   | 6,250.1        | 19.0            | 15.2   | -89.99            | 132.3                  | -255.5     | 519.9           | 489.3            | 30.64              | 16.968            |                    |         |        |
| 6,400.0               | 6,289.7        | 6,361.1   | 6,289.7        | 18.9            | 15.3   | -89.99            | 132.3                  | -225.0     | 519.9           | 489.2            | 30.71              | 16.929            |                    |         |        |
| 6,450.0               | 6,327.2        | 6,411.1   | 6,327.2        | 18.9            | 15.3   | -89.99            | 132.3                  | -191.9     | 519.9           | 489.1            | 30.86              | 16.849            |                    |         |        |
| 6,500.0               | 6,362.5        | 6,461.1   | 6,362.4        | 18.8            | 15.4   | -89.99            | 132.3                  | -156.5     | 519.9           | 488.8            | 31.10              | 16.718            |                    |         |        |
| 6,550.0               | 6,395.3        | 6,511.1   | 6,395.3        | 18.7            | 15.6   | -89.99            | 132.3                  | -118.8     | 519.9           | 488.5            | 31.46              | 16.527            |                    |         |        |
| 6,600.0               | 6,425.6        | 6,561.1   | 6,425.6        | 18.7            | 15.8   | -89.99            | 132.3                  | -79.0      | 519.9           | 488.0            | 31.96              | 16.270            |                    |         |        |
| 6,650.0               | 6,453.3        | 6,611.1   | 6,453.2        | 18.6            | 16.1   | -90.00            | 132.3                  | -37.4      | 519.9           | 487.3            | 32.61              | 15.945            |                    |         |        |
| 6,700.0               | 6,478.1        | 6,661.1   | 6,478.1        | 18.6            | 16.5   | -90.00            | 132.3                  | 6.0        | 519.9           | 486.5            | 33.42              | 15.556            |                    |         |        |
| 6,750.0               | 6,500.1        | 6,711.1   | 6,500.1        | 18.5            | 17.0   | -90.00            | 132.3                  | 50.9       | 519.9           | 485.5            | 34.41              | 15.111            |                    |         |        |
| 6,800.0               | 6,519.1        | 6,761.1   | 6,519.1        | 18.5            | 17.6   | -90.00            | 132.3                  | 97.1       | 519.9           | 484.4            | 35.56              | 14.619            |                    |         |        |
| 6,850.0               | 6,535.0        | 6,811.1   | 6,535.0        | 18.6            | 18.3   | -90.00            | 132.3                  | 144.5      | 519.9           | 483.0            | 36.88              | 14.096            |                    |         |        |
| 6,900.0               | 6,547.8        | 6,861.1   | 6,547.8        | 19.4            | 19.0   | -90.00            | 132.3                  | 192.8      | 519.9           | 481.6            | 38.36              | 13.554            |                    |         |        |
| 6,950.0               | 6,557.4        | 6,911.1   | 6,557.4        | 20.2            | 19.8   | -90.00            | 132.3                  | 241.9      | 519.9           | 479.9            | 39.97              | 13.008            |                    |         |        |
| 7,000.0               | 6,563.7        | 6,961.1   | 6,563.8        | 21.1            | 20.7   | -90.00            | 132.3                  | 291.5      | 519.9           | 478.2            | 41.70              | 12.468            |                    |         |        |
| 7,050.0               | 6,566.9        | 7,011.1   | 6,566.9        | 22.1            | 21.6   | -90.00            | 132.3                  | 341.4      | 519.9           | 476.4            | 43.53              | 11.944            |                    |         |        |
| 7,075.9               | 6,567.2        | 7,037.0   | 6,567.2        | 22.6            | 22.1   | -90.00            | 132.3                  | 367.3      | 519.9           | 475.4            | 44.51              | 11.681            |                    |         |        |
| 7,100.0               | 6,567.1        | 7,061.1   | 6,567.1        | 23.0            | 22.6   | -90.00            | 132.3                  | 391.4      | 519.9           | 474.5            | 45.45              | 11.440            |                    |         |        |
| 7,200.0               | 6,566.6        | 7,161.1   | 6,566.7        | 25.1            | 24.6   | -90.00            | 132.3                  | 491.4      | 519.9           | 470.4            | 49.53              | 10.497            |                    |         |        |
| 7,300.0               | 6,566.2        | 7,261.1   | 6,566.2        | 27.3            | 26.8   | -90.00            | 132.3                  | 591.4      | 519.9           | 466.0            | 53.88              | 9.649             |                    |         |        |
| 7,400.0               | 6,565.8        | 7,361.1   | 6,565.8        | 29.6            | 29.1   | -90.00            | 132.3                  | 691.4      | 519.9           | 461.5            | 58.45              | 8.895             |                    |         |        |
| 7,500.0               | 6,565.3        | 7,461.1   | 6,565.4        | 32.0            | 31.5   | -90.00            | 132.3                  | 791.4      | 519.9           | 456.7            | 63.19              | 8.228             |                    |         |        |
| 7,600.0               | 6,564.9        | 7,561.1   | 6,564.9        | 34.4            | 33.9   | -90.00            | 132.3                  | 891.4      | 519.9           | 451.9            | 68.06              | 7.639             |                    |         |        |
| 7,700.0               | 6,564.5        | 7,661.1   | 6,564.5        | 36.9            | 36.4   | -90.00            | 132.3                  | 991.4      | 519.9           | 446.9            | 73.04              | 7.118             |                    |         |        |
| 7,800.0               | 6,564.0        | 7,761.1   | 6,564.1        | 39.4            | 39.0   | -90.00            | 132.3                  | 1,091.4    | 519.9           | 441.8            | 78.11              | 6.656             |                    |         |        |
| 7,900.0               | 6,563.6        | 7,861.1   | 6,563.6        | 42.0            | 41.5   | -90.00            | 132.3                  | 1,191.3    | 519.9           | 436.7            | 83.25              | 6.245             |                    |         |        |
| 8,000.0               | 6,563.1        | 7,961.1   | 6,563.2        | 44.6            | 44.1   | -90.00            | 132.3                  | 1,291.3    | 519.9           | 431.5            | 88.44              | 5.879             |                    |         |        |
| 8,100.0               | 6,562.7        | 8,061.1   | 6,562.7        | 47.2            | 46.8   | -90.00            | 132.3                  | 1,391.3    | 519.9           | 426.2            | 93.69              | 5.549             |                    |         |        |
| 8,200.0               | 6,562.3        | 8,161.1   | 6,562.3        | 49.8            | 49.4   | -90.00            | 132.3                  | 1,491.3    | 519.9           | 420.9            | 98.98              | 5.253             |                    |         |        |
| 8,300.0               | 6,561.8        | 8,261.1   | 6,561.9        | 52.5            | 52.1   | -90.00            | 132.3                  | 1,591.3    | 519.9           | 415.6            | 104.30             | 4.985             |                    |         |        |
| 8,400.0               | 6,561.4        | 8,361.1   | 6,561.4        | 55.1            | 54.8   | -90.00            | 132.3                  | 1,691.3    | 519.9           | 410.3            | 109.65             | 4.742             |                    |         |        |

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

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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              |                                   |            |                      |                       |                         |                   |                    | 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 |                    |         |
| 8,500.0   | 6,561.0             | 8,461.1             | 6,561.0             | 57.8            | 57.4        | 90.00                 | 132.3                             | 1,791.3    | 519.9                | 404.9                 | 115.03                  | 4.520             |                    |         |
| 8,600.0   | 6,560.5             | 8,561.1             | 6,560.6             | 60.5            | 60.1        | 90.00                 | 132.3                             | 1,891.3    | 519.9                | 399.5                 | 120.43                  | 4.317             |                    |         |
| 8,700.0   | 6,560.1             | 8,661.1             | 6,560.1             | 63.2            | 62.9        | 90.00                 | 132.3                             | 1,991.3    | 519.9                | 394.1                 | 125.84                  | 4.131             |                    |         |
| 8,800.0   | 6,559.7             | 8,761.1             | 6,559.7             | 65.9            | 65.6        | 90.00                 | 132.3                             | 2,091.3    | 519.9                | 388.6                 | 131.28                  | 3.960             |                    |         |
| 8,900.0   | 6,559.2             | 8,861.1             | 6,559.3             | 68.6            | 68.3        | 90.00                 | 132.3                             | 2,191.3    | 519.9                | 383.2                 | 136.73                  | 3.802             |                    |         |
| 9,000.0   | 6,558.8             | 8,961.1             | 6,558.8             | 71.4            | 71.0        | 90.00                 | 132.3                             | 2,291.3    | 519.9                | 377.7                 | 142.20                  | 3.656             |                    |         |
| 9,100.0   | 6,558.3             | 9,061.1             | 6,558.4             | 74.1            | 73.8        | 90.00                 | 132.3                             | 2,391.3    | 519.9                | 372.2                 | 147.67                  | 3.521             |                    |         |
| 9,200.0   | 6,557.9             | 9,161.1             | 6,557.9             | 76.8            | 76.5        | 90.00                 | 132.3                             | 2,491.3    | 519.9                | 366.7                 | 153.16                  | 3.395             |                    |         |
| 9,300.0   | 6,557.5             | 9,261.1             | 6,557.5             | 79.6            | 79.3        | 90.00                 | 132.3                             | 2,591.3    | 519.9                | 361.3                 | 158.65                  | 3.277             |                    |         |
| 9,400.0   | 6,557.0             | 9,361.1             | 6,557.1             | 82.3            | 82.0        | 90.00                 | 132.3                             | 2,691.3    | 519.9                | 355.7                 | 164.16                  | 3.167             |                    |         |
| 9,500.0   | 6,556.6             | 9,461.1             | 6,556.6             | 85.1            | 84.8        | 90.00                 | 132.3                             | 2,791.3    | 519.9                | 350.2                 | 169.67                  | 3.064             |                    |         |
| 9,600.0   | 6,556.2             | 9,561.1             | 6,556.2             | 87.8            | 87.5        | 90.00                 | 132.3                             | 2,891.3    | 519.9                | 344.7                 | 175.19                  | 2.968             |                    |         |
| 9,700.0   | 6,555.7             | 9,661.1             | 6,555.8             | 90.6            | 90.3        | 90.00                 | 132.3                             | 2,991.3    | 519.9                | 339.2                 | 180.71                  | 2.877             |                    |         |
| 9,800.0   | 6,555.3             | 9,761.1             | 6,555.3             | 93.3            | 93.1        | 90.00                 | 132.3                             | 3,091.3    | 519.9                | 333.7                 | 186.24                  | 2.792             |                    |         |
| 9,900.0   | 6,554.9             | 9,861.1             | 6,554.9             | 96.1            | 95.8        | 90.00                 | 132.3                             | 3,191.3    | 519.9                | 328.1                 | 191.78                  | 2.711             |                    |         |
| 10,000.0  | 6,554.4             | 9,961.1             | 6,554.5             | 98.9            | 98.6        | 90.00                 | 132.3                             | 3,291.3    | 519.9                | 322.6                 | 197.32                  | 2.635             |                    |         |
| 10,100.0  | 6,554.0             | 10,061.1            | 6,554.0             | 101.6           | 101.4       | 90.00                 | 132.3                             | 3,391.3    | 519.9                | 317.0                 | 202.86                  | 2.563             |                    |         |
| 10,200.0  | 6,553.5             | 10,161.1            | 6,553.6             | 104.4           | 104.2       | 90.00                 | 132.3                             | 3,491.3    | 519.9                | 311.5                 | 208.41                  | 2.495             |                    |         |
| 10,300.0  | 6,553.1             | 10,261.1            | 6,553.1             | 107.2           | 106.9       | 90.00                 | 132.3                             | 3,591.3    | 519.9                | 305.9                 | 213.96                  | 2.430             |                    |         |
| 10,400.0  | 6,552.7             | 10,361.1            | 6,552.7             | 110.0           | 109.7       | 90.00                 | 132.3                             | 3,691.3    | 519.9                | 300.4                 | 219.52                  | 2.368             |                    |         |
| 10,500.0  | 6,552.2             | 10,461.1            | 6,552.3             | 112.7           | 112.5       | 90.00                 | 132.3                             | 3,791.3    | 519.9                | 294.8                 | 225.08                  | 2.310             |                    |         |
| 10,600.0  | 6,551.8             | 10,561.1            | 6,551.8             | 115.5           | 115.3       | 90.00                 | 132.3                             | 3,891.3    | 519.9                | 289.3                 | 230.64                  | 2.254             |                    |         |
| 10,700.0  | 6,551.4             | 10,661.1            | 6,551.4             | 118.3           | 118.1       | 90.00                 | 132.3                             | 3,991.3    | 519.9                | 283.7                 | 236.21                  | 2.201             |                    |         |
| 10,800.0  | 6,550.9             | 10,761.1            | 6,551.0             | 121.1           | 120.8       | 90.00                 | 132.3                             | 4,091.3    | 519.9                | 278.1                 | 241.77                  | 2.150             |                    |         |
| 10,900.0  | 6,550.5             | 10,861.1            | 6,550.5             | 123.8           | 123.6       | 90.00                 | 132.3                             | 4,191.3    | 519.9                | 272.6                 | 247.34                  | 2.102             |                    |         |
| 11,000.0  | 6,550.1             | 10,961.1            | 6,550.1             | 126.6           | 126.4       | 90.00                 | 132.3                             | 4,291.3    | 519.9                | 267.0                 | 252.91                  | 2.056             |                    |         |
| 11,100.0  | 6,549.6             | 11,061.1            | 6,549.7             | 129.4           | 129.2       | 90.00                 | 132.3                             | 4,391.3    | 519.9                | 261.4                 | 258.49                  | 2.011             |                    |         |
| 11,200.0  | 6,549.2             | 11,161.1            | 6,549.2             | 132.2           | 132.0       | 90.00                 | 132.3                             | 4,491.3    | 519.9                | 255.8                 | 264.06                  | 1.969             |                    |         |
| 11,300.0  | 6,548.8             | 11,261.1            | 6,548.8             | 135.0           | 134.8       | 90.00                 | 132.3                             | 4,591.3    | 519.9                | 250.3                 | 269.64                  | 1.928             |                    |         |
| 11,400.0  | 6,548.3             | 11,361.1            | 6,548.3             | 137.8           | 137.6       | 90.00                 | 132.3                             | 4,691.3    | 519.9                | 244.7                 | 275.22                  | 1.889             |                    |         |
| 11,500.0  | 6,547.9             | 11,461.1            | 6,547.9             | 140.6           | 140.4       | 90.00                 | 132.3                             | 4,791.3    | 519.9                | 239.1                 | 280.80                  | 1.851             |                    |         |
| 11,600.0  | 6,547.4             | 11,561.1            | 6,547.5             | 143.4           | 143.1       | 90.00                 | 132.3                             | 4,891.3    | 519.9                | 233.5                 | 286.39                  | 1.815             |                    |         |
| 11,700.0  | 6,547.0             | 11,661.1            | 6,547.0             | 146.1           | 145.9       | 90.00                 | 132.3                             | 4,991.3    | 519.9                | 227.9                 | 291.97                  | 1.781             |                    |         |
| 11,800.0  | 6,546.6             | 11,761.1            | 6,546.6             | 148.9           | 148.7       | 90.00                 | 132.3                             | 5,091.3    | 519.9                | 222.3                 | 297.56                  | 1.747             |                    |         |
| 11,900.0  | 6,546.1             | 11,861.1            | 6,546.2             | 151.7           | 151.5       | 90.00                 | 132.3                             | 5,191.3    | 519.9                | 216.7                 | 303.14                  | 1.715             |                    |         |
| 12,000.0  | 6,545.7             | 11,961.1            | 6,545.7             | 154.5           | 154.3       | 90.00                 | 132.3                             | 5,291.3    | 519.9                | 211.2                 | 308.73                  | 1.684             |                    |         |
| 12,100.0  | 6,545.3             | 12,061.1            | 6,545.3             | 157.3           | 157.1       | 90.00                 | 132.3                             | 5,391.3    | 519.9                | 205.6                 | 314.32                  | 1.654             |                    |         |
| 12,200.0  | 6,544.8             | 12,161.1            | 6,544.9             | 160.1           | 159.9       | 90.00                 | 132.3                             | 5,491.3    | 519.9                | 200.0                 | 319.91                  | 1.625             |                    |         |
| 12,300.0  | 6,544.4             | 12,261.1            | 6,544.4             | 162.9           | 162.7       | 90.00                 | 132.3                             | 5,591.3    | 519.9                | 194.4                 | 325.50                  | 1.597             |                    |         |
| 12,400.0  | 6,544.0             | 12,361.1            | 6,544.0             | 165.7           | 165.5       | 90.00                 | 132.3                             | 5,691.3    | 519.9                | 188.8                 | 331.09                  | 1.570             |                    |         |
| 12,500.0  | 6,543.5             | 12,461.1            | 6,543.5             | 168.5           | 168.3       | 90.00                 | 132.3                             | 5,791.3    | 519.9                | 183.2                 | 336.69                  | 1.544             |                    |         |
| 12,600.0  | 6,543.1             | 12,561.1            | 6,543.1             | 171.3           | 171.1       | 90.00                 | 132.3                             | 5,891.3    | 519.9                | 177.6                 | 342.28                  | 1.519             |                    |         |
| 12,700.0  | 6,542.6             | 12,661.1            | 6,542.7             | 174.1           | 173.9       | 90.00                 | 132.3                             | 5,991.3    | 519.9                | 172.0                 | 347.88                  | 1.494 Level 3     |                    |         |
| 12,800.0  | 6,542.2             | 12,761.1            | 6,542.2             | 176.9           | 176.7       | 90.00                 | 132.3                             | 6,091.3    | 519.9                | 166.4                 | 353.47                  | 1.471 Level 3     |                    |         |
| 12,900.0  | 6,541.8             | 12,861.1            | 6,541.8             | 179.7           | 179.5       | 90.00                 | 132.3                             | 6,191.3    | 519.9                | 160.8                 | 359.07                  | 1.448 Level 3     |                    |         |
| 13,000.0  | 6,541.3             | 12,961.1            | 6,541.4             | 182.5           | 182.3       | 90.00                 | 132.3                             | 6,291.3    | 519.9                | 155.2                 | 364.66                  | 1.426 Level 3     |                    |         |
| 13,100.0  | 6,540.9             | 13,061.1            | 6,540.9             | 185.3           | 185.1       | 90.00                 | 132.3                             | 6,391.3    | 519.9                | 149.6                 | 370.26                  | 1.404 Level 3     |                    |         |
| 13,200.0  | 6,540.5             | 13,161.1            | 6,540.5             | 188.1           | 187.9       | 90.00                 | 132.3                             | 6,491.3    | 519.9                | 144.0                 | 375.86                  | 1.383 Level 3     |                    |         |
| 13,300.0  | 6,540.0             | 13,261.1            | 6,540.1             | 190.9           | 190.7       | 90.00                 | 132.3                             | 6,591.3    | 519.9                | 138.4                 | 381.46                  | 1.363 Level 3     |                    |         |
| 13,400.0  | 6,539.6             | 13,361.1            | 6,539.6             | 193.7           | 193.5       | 90.00                 | 132.3                             | 6,691.3    | 519.9                | 132.8                 | 387.06                  | 1.343 Level 3     |                    |         |
| 13,500.0  | 6,539.2             | 13,461.1            | 6,539.2             | 196.5           | 196.3       | 90.00                 | 132.3                             | 6,791.3    | 519.9                | 127.2                 | 392.66                  | 1.324 Level 3     |                    |         |

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

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extension (3-3-16)           | <b>Offset TVD Reference:</b>        | 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            |        |
| 13,600.0  | 6,538.7             | 13,561.1            | 6,538.7             | 199.3           | 199.1       | 90.00                 | 132.3                             | 6,891.3    | 519.9                | 121.6                 | 398.26                  | 1.305             | Level 3            |        |
| 13,700.0  | 6,538.3             | 13,661.1            | 6,538.3             | 202.1           | 201.9       | 90.00                 | 132.3                             | 6,991.3    | 519.9                | 116.0                 | 403.86                  | 1.287             | Level 3            |        |
| 13,800.0  | 6,537.8             | 13,761.1            | 6,537.9             | 204.9           | 204.7       | 90.00                 | 132.3                             | 7,091.3    | 519.9                | 110.4                 | 409.46                  | 1.270             | Level 3            |        |
| 13,900.0  | 6,537.4             | 13,861.1            | 6,537.4             | 207.7           | 207.5       | 90.00                 | 132.3                             | 7,191.3    | 519.9                | 104.8                 | 415.07                  | 1.253             | Level 3            |        |
| 14,000.0  | 6,537.0             | 13,961.1            | 6,537.0             | 210.5           | 210.3       | 90.00                 | 132.3                             | 7,291.3    | 519.9                | 99.2                  | 420.67                  | 1.236             | Level 2            |        |
| 14,100.0  | 6,536.5             | 14,061.1            | 6,536.6             | 213.3           | 213.1       | 90.00                 | 132.3                             | 7,391.3    | 519.9                | 93.6                  | 426.27                  | 1.220             | Level 2            |        |
| 14,200.0  | 6,536.1             | 14,161.1            | 6,536.1             | 216.1           | 215.9       | 90.00                 | 132.3                             | 7,491.3    | 519.9                | 88.0                  | 431.88                  | 1.204             | Level 2            |        |
| 14,300.0  | 6,535.7             | 14,261.1            | 6,535.7             | 218.9           | 218.7       | 90.00                 | 132.3                             | 7,591.3    | 519.9                | 82.4                  | 437.48                  | 1.188             | Level 2            |        |
| 14,400.0  | 6,535.2             | 14,361.1            | 6,535.3             | 221.7           | 221.5       | 90.00                 | 132.3                             | 7,691.3    | 519.9                | 76.8                  | 443.09                  | 1.173             | Level 2            |        |
| 14,500.0  | 6,534.8             | 14,461.1            | 6,534.8             | 224.5           | 224.3       | 90.00                 | 132.3                             | 7,791.3    | 519.9                | 71.2                  | 448.69                  | 1.159             | Level 2            |        |
| 14,600.0  | 6,534.4             | 14,561.1            | 6,534.4             | 227.3           | 227.1       | 90.00                 | 132.3                             | 7,891.3    | 519.9                | 65.6                  | 454.30                  | 1.144             | Level 2            |        |
| 14,700.0  | 6,533.9             | 14,661.1            | 6,533.9             | 230.1           | 229.9       | 90.00                 | 132.3                             | 7,991.3    | 519.9                | 60.0                  | 459.90                  | 1.130             | Level 2            |        |
| 14,800.0  | 6,533.5             | 14,761.1            | 6,533.5             | 232.9           | 232.7       | 90.00                 | 132.3                             | 8,091.3    | 519.9                | 54.4                  | 465.51                  | 1.117             | Level 2            |        |
| 14,900.0  | 6,533.0             | 14,861.1            | 6,533.1             | 235.7           | 235.5       | 90.00                 | 132.3                             | 8,191.3    | 519.9                | 48.8                  | 471.11                  | 1.103             | Level 2            |        |
| 15,000.0  | 6,532.6             | 14,961.1            | 6,532.6             | 238.5           | 238.3       | 90.00                 | 132.3                             | 8,291.3    | 519.9                | 43.2                  | 476.72                  | 1.091             | Level 2            |        |
| 15,100.0  | 6,532.2             | 15,061.1            | 6,532.2             | 241.3           | 241.1       | 90.00                 | 132.3                             | 8,391.3    | 519.9                | 37.5                  | 482.33                  | 1.078             | Level 2            |        |
| 15,200.0  | 6,531.7             | 15,161.1            | 6,531.8             | 244.1           | 243.9       | 90.00                 | 132.3                             | 8,491.3    | 519.9                | 31.9                  | 487.94                  | 1.065             | Level 2            |        |
| 15,300.0  | 6,531.3             | 15,261.1            | 6,531.3             | 246.9           | 246.7       | 90.00                 | 132.3                             | 8,591.3    | 519.9                | 26.3                  | 493.54                  | 1.053             | Level 2            |        |
| 15,400.0  | 6,530.9             | 15,361.1            | 6,530.9             | 249.7           | 249.5       | 90.00                 | 132.3                             | 8,691.3    | 519.9                | 20.7                  | 499.15                  | 1.042             | Level 2            |        |
| 15,500.0  | 6,530.4             | 15,461.1            | 6,530.5             | 252.5           | 252.3       | 90.00                 | 132.3                             | 8,791.3    | 519.9                | 15.1                  | 504.76                  | 1.030             | Level 2            |        |
| 15,600.0  | 6,530.0             | 15,561.1            | 6,530.0             | 255.3           | 255.1       | 90.00                 | 132.3                             | 8,891.3    | 519.9                | 9.5                   | 510.37                  | 1.019             | Level 2            |        |
| 15,700.0  | 6,529.6             | 15,661.1            | 6,529.6             | 258.1           | 258.0       | 90.00                 | 132.3                             | 8,991.3    | 519.9                | 3.9                   | 515.98                  | 1.008             | Level 2            |        |
| 15,800.0  | 6,529.1             | 15,761.1            | 6,529.1             | 260.9           | 260.8       | 90.00                 | 132.3                             | 9,091.3    | 519.9                | -1.7                  | 521.59                  | 0.997             | Level 1            |        |
| 15,900.0  | 6,528.7             | 15,861.1            | 6,528.7             | 263.7           | 263.6       | 90.00                 | 132.3                             | 9,191.3    | 519.9                | -7.3                  | 527.20                  | 0.986             | Level 1            |        |
| 16,000.0  | 6,528.2             | 15,961.1            | 6,528.3             | 266.5           | 266.4       | 90.00                 | 132.3                             | 9,291.3    | 519.9                | -12.9                 | 532.80                  | 0.976             | Level 1            |        |
| 16,100.0  | 6,527.8             | 16,061.1            | 6,527.8             | 269.3           | 269.2       | 90.00                 | 132.3                             | 9,391.3    | 519.9                | -18.5                 | 538.41                  | 0.966             | Level 1            |        |
| 16,200.0  | 6,527.4             | 16,161.1            | 6,527.4             | 272.1           | 272.0       | 90.00                 | 132.3                             | 9,491.3    | 519.9                | -24.2                 | 544.02                  | 0.956             | Level 1            |        |
| 16,284.8  | 6,527.0             | 16,245.9            | 6,527.0             | 274.5           | 274.4       | 90.00                 | 132.3                             | 9,576.1    | 519.9                | -28.9                 | 548.78                  | 0.947             | Level 1, ES, SF    |        |

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design   |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.0 ft  |
|---|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1) |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                         | 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 |
| 0.0   | 0.0                 | 0.0                 | 0.0                 | 0.0            | 0.0         | 129.79                | -28.8                             | 34.6       | 45.0                 |                       |                         |                    |         |
| 100.0   | 100.0               | 100.0               | 100.0               | 0.1            | 0.1         | 129.79                | -28.8                             | 34.6       | 45.0                 | 44.7                  | 0.22                    | 200.054            |         |
| 200.0   | 200.0               | 200.0               | 200.0               | 0.3            | 0.3         | 129.79                | -28.8                             | 34.6       | 45.0                 | 44.3                  | 0.67                    | 66.685             |         |
| 300.0   | 300.0               | 300.0               | 300.0               | 0.6            | 0.6         | 129.79                | -28.8                             | 34.6       | 45.0                 | 43.8                  | 1.12                    | 40.011             |         |
| 400.0   | 400.0               | 400.0               | 400.0               | 0.8            | 0.8         | 129.79                | -28.8                             | 34.6       | 45.0                 | 43.4                  | 1.57                    | 28.579             |         |
| 500.0   | 500.0               | 500.0               | 500.0               | 1.0            | 1.0         | 129.79                | -28.8                             | 34.6       | 45.0                 | 42.9                  | 2.02                    | 22.228             |         |
| 600.0   | 600.0               | 600.0               | 600.0               | 1.2            | 1.2         | 129.79                | -28.8                             | 34.6       | 45.0                 | 42.5                  | 2.47                    | 18.187             |         |
| 700.0   | 700.0               | 700.0               | 700.0               | 1.5            | 1.5         | 129.79                | -28.8                             | 34.6       | 45.0                 | 42.0                  | 2.92                    | 15.389             |         |
| 800.0   | 800.0               | 800.0               | 800.0               | 1.7            | 1.7         | 129.79                | -28.8                             | 34.6       | 45.0                 | 41.6                  | 3.37                    | 13.337             |         |
| 900.0   | 900.0               | 900.0               | 900.0               | 1.9            | 1.9         | 129.79                | -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         | 129.79                | -28.8                             | 34.6       | 45.0                 | 40.7                  | 4.27                    | 10.529 CC, ES      |         |
| 1,100.0   | 1,100.0             | 1,100.0             | 1,100.0             | 2.4            | 2.4         | 161.82                | -28.8                             | 34.6       | 46.2                 | 41.5                  | 4.72                    | 9.794              |         |
| 1,200.0   | 1,199.9             | 1,199.9             | 1,199.9             | 2.6            | 2.6         | 163.21                | -28.8                             | 34.6       | 50.0                 | 44.8                  | 5.16                    | 9.675              |         |
| 1,300.0   | 1,299.7             | 1,299.7             | 1,299.7             | 2.8            | 2.8         | 165.11                | -28.8                             | 34.6       | 56.2                 | 50.6                  | 5.61                    | 10.031             |         |
| 1,400.0   | 1,399.3             | 1,399.3             | 1,399.3             | 3.0            | 3.0         | 167.15                | -28.8                             | 34.6       | 65.1                 | 59.1                  | 6.05                    | 10.768             |         |
| 1,500.0   | 1,498.6             | 1,498.6             | 1,498.6             | 3.3            | 3.3         | 169.07                | -28.8                             | 34.6       | 76.6                 | 70.2                  | 6.49                    | 11.813             |         |
| 1,600.0   | 1,597.5             | 1,597.5             | 1,597.5             | 3.6            | 3.5         | 170.75                | -28.8                             | 34.6       | 90.8                 | 83.8                  | 6.92                    | 13.110             |         |
| 1,700.0   | 1,696.1             | 1,696.1             | 1,696.1             | 3.9            | 3.7         | 172.17                | -28.8                             | 34.6       | 107.5                | 100.2                 | 7.36                    | 14.616             |         |
| 1,729.0   | 1,724.6             | 1,724.6             | 1,724.6             | 4.0            | 3.8         | 172.53                | -28.8                             | 34.6       | 112.9                | 105.4                 | 7.48                    | 15.086             |         |
| 1,800.0   | 1,794.3             | 1,794.3             | 1,794.3             | 4.2            | 3.9         | 173.33                | -28.8                             | 34.6       | 126.2                | 118.4                 | 7.80                    | 16.181             |         |
| 1,900.0   | 1,892.5             | 1,892.5             | 1,892.5             | 4.5            | 4.1         | 174.20                | -28.8                             | 34.6       | 145.1                | 136.8                 | 8.26                    | 17.577             |         |
| 2,000.0   | 1,990.7             | 1,990.7             | 1,990.7             | 4.9            | 4.4         | 174.87                | -28.8                             | 34.6       | 164.0                | 155.3                 | 8.71                    | 18.824             |         |
| 2,100.0   | 2,088.8             | 2,090.1             | 2,090.1             | 5.2            | 4.6         | 175.61                | -28.9                             | 33.9       | 182.6                | 173.4                 | 9.16                    | 19.938             |         |
| 2,200.0   | 2,187.0             | 2,189.8             | 2,189.8             | 5.6            | 4.8         | 176.67                | -29.3                             | 31.5       | 200.5                | 190.9                 | 9.59                    | 20.900             |         |
| 2,300.0   | 2,285.2             | 2,289.7             | 2,289.6             | 6.0            | 5.0         | 177.97                | -30.1                             | 27.3       | 217.8                | 207.7                 | 10.03                   | 21.704             |         |
| 2,400.0   | 2,383.4             | 2,389.7             | 2,389.4             | 6.4            | 5.2         | 179.48                | -31.1                             | 21.5       | 234.5                | 224.0                 | 10.48                   | 22.369             |         |
| 2,500.0   | 2,481.6             | 2,489.6             | 2,489.0             | 6.8            | 5.4         | -178.83               | -32.4                             | 14.0       | 250.7                | 239.8                 | 10.94                   | 22.912             |         |
| 2,600.0   | 2,579.8             | 2,589.5             | 2,588.5             | 7.2            | 5.6         | -177.00               | -34.1                             | 4.7        | 266.6                | 255.2                 | 11.42                   | 23.351             |         |
| 2,700.0   | 2,678.0             | 2,689.3             | 2,687.7             | 7.6            | 5.8         | -175.03               | -36.0                             | -6.2       | 282.2                | 270.3                 | 11.91                   | 23.698             |         |
| 2,800.0   | 2,776.1             | 2,788.9             | 2,786.4             | 8.0            | 6.1         | -172.96               | -38.3                             | -18.8      | 297.7                | 285.2                 | 12.42                   | 23.964             |         |
| 2,900.0   | 2,874.3             | 2,887.4             | 2,883.9             | 8.4            | 6.3         | -170.89               | -40.7                             | -32.5      | 313.2                | 300.2                 | 12.95                   | 24.178             |         |
| 3,000.0   | 2,972.5             | 2,985.6             | 2,981.1             | 8.8            | 6.6         | -169.02               | -43.1                             | -46.1      | 329.1                | 315.6                 | 13.50                   | 24.373             |         |
| 3,100.0   | 3,070.7             | 3,083.8             | 3,078.3             | 9.2            | 6.9         | -167.32               | -45.6                             | -59.8      | 345.3                | 331.2                 | 14.06                   | 24.551             |         |
| 3,200.0   | 3,168.9             | 3,181.9             | 3,175.5             | 9.6            | 7.1         | -165.77               | -48.0                             | -73.4      | 361.7                | 347.1                 | 14.64                   | 24.714             |         |
| 3,300.0   | 3,267.1             | 3,280.1             | 3,272.7             | 10.0           | 7.4         | -164.36               | -50.4                             | -87.1      | 378.5                | 363.2                 | 15.22                   | 24.863             |         |
| 3,400.0   | 3,365.2             | 3,378.3             | 3,369.9             | 10.4           | 7.7         | -163.06               | -52.8                             | -100.7     | 395.4                | 379.6                 | 15.82                   | 24.999             |         |
| 3,500.0   | 3,463.4             | 3,476.5             | 3,467.1             | 10.8           | 8.0         | -161.87               | -55.3                             | -114.4     | 412.5                | 396.0                 | 16.42                   | 25.124             |         |
| 3,600.0   | 3,561.6             | 3,574.7             | 3,564.3             | 11.2           | 8.3         | -160.78               | -57.7                             | -128.0     | 429.7                | 412.7                 | 17.03                   | 25.238             |         |
| 3,700.0   | 3,659.8             | 3,672.8             | 3,661.5             | 11.6           | 8.6         | -159.77               | -60.1                             | -141.7     | 447.1                | 429.5                 | 17.64                   | 25.344             |         |
| 3,800.0   | 3,758.0             | 3,771.0             | 3,758.7             | 12.0           | 8.9         | -158.84               | -62.6                             | -155.3     | 464.6                | 446.4                 | 18.26                   | 25.441             |         |
| 3,900.0   | 3,856.2             | 3,869.2             | 3,855.9             | 12.4           | 9.2         | -157.97               | -65.0                             | -169.0     | 482.3                | 463.4                 | 18.89                   | 25.532             |         |
| 4,000.0   | 3,954.4             | 3,967.4             | 3,953.1             | 12.8           | 9.5         | -157.17               | -67.4                             | -182.6     | 500.0                | 480.5                 | 19.52                   | 25.616             |         |
| 4,100.0   | 4,052.5             | 4,065.6             | 4,050.3             | 13.3           | 9.8         | -156.42               | -69.8                             | -196.3     | 517.8                | 497.7                 | 20.15                   | 25.694             |         |
| 4,200.0   | 4,150.7             | 4,163.7             | 4,147.5             | 13.7           | 10.2        | -155.72               | -72.3                             | -210.0     | 535.7                | 514.9                 | 20.79                   | 25.767             |         |
| 4,300.0   | 4,248.9             | 4,261.9             | 4,244.7             | 14.1           | 10.5        | -155.06               | -74.7                             | -223.6     | 553.7                | 532.3                 | 21.43                   | 25.835             |         |
| 4,400.0   | 4,347.1             | 4,360.1             | 4,341.9             | 14.5           | 10.8        | -154.45               | -77.1                             | -237.3     | 571.7                | 549.7                 | 22.08                   | 25.899             |         |
| 4,500.0   | 4,445.3             | 4,458.3             | 4,439.1             | 14.9           | 11.1        | -153.87               | -79.6                             | -250.9     | 589.8                | 567.1                 | 22.72                   | 25.960             |         |
| 4,600.0   | 4,543.5             | 4,556.5             | 4,536.3             | 15.3           | 11.4        | -153.33               | -82.0                             | -264.6     | 608.0                | 584.6                 | 23.37                   | 26.016             |         |
| 4,700.0   | 4,641.6             | 4,654.6             | 4,633.5             | 15.7           | 11.8        | -152.82               | -84.4                             | -278.2     | 626.2                | 602.2                 | 24.02                   | 26.070             |         |
| 4,800.0   | 4,739.8             | 4,752.8             | 4,730.6             | 16.2           | 12.1        | -152.33               | -86.8                             | -291.9     | 644.5                | 619.8                 | 24.67                   | 26.121             |         |
| 4,900.0   | 4,838.0             | 4,851.0             | 4,827.8             | 16.6           | 12.4        | -151.88               | -89.3                             | -305.5     | 662.8                | 637.4                 | 25.33                   | 26.169             |         |

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



|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1) |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | 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 (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   | 4,936.2             | 4,949.2             | 4,925.0             | 17.0            | 12.7        | -151.45               | -91.7                             | -319.2     | 681.1                | 655.1                 | 25.98                   | 26.214            |                           |         |
| 5,100.0   | 5,034.4             | 5,047.4             | 5,022.2             | 17.4            | 13.1        | -151.04               | -94.1                             | -332.8     | 699.5                | 672.8                 | 26.64                   | 26.257            |                           |         |
| 5,122.6   | 5,056.6             | 5,069.6             | 5,044.2             | 17.5            | 13.1        | -150.95               | -94.7                             | -335.9     | 703.6                | 676.8                 | 26.79                   | 26.267            |                           |         |
| 5,200.0   | 5,132.8             | 5,145.7             | 5,119.6             | 17.8            | 13.4        | -150.74               | -96.6                             | -346.5     | 717.0                | 689.6                 | 27.31                   | 26.250            |                           |         |
| 5,300.0   | 5,231.7             | 5,244.4             | 5,217.3             | 18.1            | 13.7        | -150.35               | -99.0                             | -360.2     | 731.6                | 703.6                 | 27.93                   | 26.189            |                           |         |
| 5,400.0   | 5,331.1             | 5,344.1             | 5,316.0             | 18.3            | 14.0        | -149.81               | -101.5                            | -374.0     | 743.3                | 714.7                 | 28.53                   | 26.057            |                           |         |
| 5,500.0   | 5,430.8             | 5,447.7             | 5,418.9             | 18.5            | 14.3        | -149.29               | -103.6                            | -385.8     | 751.7                | 722.7                 | 29.02                   | 25.902            |                           |         |
| 5,600.0   | 5,530.7             | 5,551.9             | 5,522.8             | 18.7            | 14.5        | -148.88               | -105.0                            | -394.0     | 756.6                | 727.1                 | 29.42                   | 25.714            |                           |         |
| 5,669.3   | 5,600.0             | 5,624.4             | 5,595.2             | 18.7            | 14.7        | 179.82                | -105.6                            | -397.6     | 757.9                | 728.1                 | 29.74                   | 25.483            |                           |         |
| 5,700.0   | 5,630.7             | 5,656.6             | 5,627.3             | 18.8            | 14.7        | 179.89                | -105.8                            | -398.5     | 758.0                | 728.2                 | 29.84                   | 25.405            |                           |         |
| 5,800.0   | 5,730.7             | 5,759.9             | 5,730.7             | 18.9            | 14.9        | 179.96                | -106.0                            | -399.4     | 758.2                | 728.0                 | 30.18                   | 25.121            |                           |         |
| 5,872.6   | 5,803.2             | 5,832.5             | 5,803.2             | 19.0            | 15.0        | 179.96                | -106.0                            | -399.4     | 758.2                | 727.7                 | 30.44                   | 24.909            |                           |         |
| 5,900.0   | 5,830.7             | 5,859.9             | 5,830.7             | 19.1            | 15.1        | 90.00                 | -106.0                            | -399.4     | 758.2                | 727.7                 | 30.48                   | 24.873            |                           |         |
| 5,901.7   | 5,832.3             | 5,861.6             | 5,832.3             | 19.1            | 15.1        | 90.00                 | -106.0                            | -399.4     | 758.2                | 727.7                 | 30.49                   | 24.869            |                           |         |
| 5,950.0   | 5,880.5             | 5,909.8             | 5,880.5             | 19.1            | 15.2        | 90.25                 | -106.0                            | -399.4     | 758.2                | 727.5                 | 30.65                   | 24.740            |                           |         |
| 6,000.0   | 5,930.1             | 5,959.9             | 5,930.6             | 19.1            | 15.2        | 90.64                 | -106.0                            | -397.9     | 758.2                | 727.4                 | 30.78                   | 24.632            |                           |         |
| 6,050.0   | 5,979.1             | 6,010.3             | 5,980.8             | 19.2            | 15.3        | 91.03                 | -106.0                            | -393.1     | 758.3                | 727.4                 | 30.87                   | 24.563            |                           |         |
| 6,100.0   | 6,027.3             | 6,061.2             | 6,031.0             | 19.2            | 15.3        | 91.42                 | -106.0                            | -384.9     | 758.4                | 727.5                 | 30.92                   | 24.525            |                           |         |
| 6,150.0   | 6,074.6             | 6,112.3             | 6,080.8             | 19.1            | 15.3        | 91.80                 | -106.0                            | -373.3     | 758.6                | 727.6                 | 30.94                   | 24.514            |                           |         |
| 6,200.0   | 6,120.7             | 6,163.9             | 6,130.1             | 19.1            | 15.3        | 92.18                 | -106.0                            | -358.3     | 758.7                | 727.8                 | 30.94                   | 24.524            |                           |         |
| 6,250.0   | 6,165.5             | 6,215.8             | 6,178.6             | 19.1            | 15.3        | 92.54                 | -106.0                            | -339.8     | 758.9                | 728.0                 | 30.92                   | 24.547            |                           |         |
| 6,300.0   | 6,208.7             | 6,268.0             | 6,226.0             | 19.0            | 15.3        | 92.90                 | -106.0                            | -318.0     | 759.2                | 728.3                 | 30.90                   | 24.570            |                           |         |
| 6,350.0   | 6,250.2             | 6,320.6             | 6,272.2             | 19.0            | 15.2        | 93.24                 | -106.0                            | -292.7     | 759.4                | 728.5                 | 30.89                   | 24.583            |                           |         |
| 6,400.0   | 6,289.7             | 6,373.6             | 6,316.8             | 18.9            | 15.2        | 93.58                 | -106.0                            | -264.2     | 759.7                | 728.7                 | 30.92                   | 24.567            |                           |         |
| 6,450.0   | 6,327.2             | 6,426.9             | 6,359.5             | 18.9            | 15.3        | 93.89                 | -106.0                            | -232.4     | 759.9                | 728.9                 | 31.01                   | 24.506            |                           |         |
| 6,500.0   | 6,362.5             | 6,480.5             | 6,400.2             | 18.8            | 15.3        | 94.19                 | -106.0                            | -197.5     | 760.2                | 729.0                 | 31.18                   | 24.382            |                           |         |
| 6,550.0   | 6,395.3             | 6,534.4             | 6,438.6             | 18.7            | 15.4        | 94.47                 | -106.0                            | -159.6     | 760.5                | 729.0                 | 31.46                   | 24.175            |                           |         |
| 6,600.0   | 6,425.6             | 6,588.6             | 6,474.3             | 18.7            | 15.6        | 94.73                 | -106.0                            | -118.9     | 760.8                | 728.9                 | 31.87                   | 23.872            |                           |         |
| 6,650.0   | 6,453.3             | 6,643.1             | 6,507.3             | 18.6            | 15.9        | 94.97                 | -106.0                            | -75.5      | 761.1                | 728.6                 | 32.44                   | 23.463            |                           |         |
| 6,700.0   | 6,478.1             | 6,697.9             | 6,537.2             | 18.6            | 16.2        | 95.19                 | -106.0                            | -29.6      | 761.3                | 728.1                 | 33.18                   | 22.946            |                           |         |
| 6,750.0   | 6,500.1             | 6,752.9             | 6,563.8             | 18.5            | 16.7        | 95.38                 | -106.0                            | 18.5       | 761.5                | 727.4                 | 34.11                   | 22.326            |                           |         |
| 6,800.0   | 6,519.1             | 6,808.1             | 6,587.1             | 18.5            | 17.2        | 95.55                 | -106.0                            | 68.5       | 761.8                | 726.5                 | 35.24                   | 21.617            |                           |         |
| 6,850.0   | 6,535.0             | 6,863.5             | 6,606.6             | 18.6            | 17.9        | 95.69                 | -106.0                            | 120.3      | 761.9                | 725.4                 | 36.55                   | 20.844            |                           |         |
| 6,900.0   | 6,547.8             | 6,919.0             | 6,622.5             | 19.4            | 18.7        | 95.81                 | -106.0                            | 173.5      | 762.1                | 724.0                 | 38.05                   | 20.028            |                           |         |
| 6,950.0   | 6,557.4             | 6,974.7             | 6,634.4             | 20.2            | 19.6        | 95.89                 | -106.0                            | 227.9      | 762.2                | 722.5                 | 39.71                   | 19.195            |                           |         |
| 7,000.0   | 6,563.7             | 7,030.4             | 6,642.4             | 21.1            | 20.5        | 95.95                 | -106.0                            | 283.0      | 762.3                | 720.8                 | 41.51                   | 18.364            |                           |         |
| 7,050.0   | 6,566.9             | 7,086.2             | 6,646.3             | 22.1            | 21.5        | 95.98                 | -106.0                            | 338.7      | 762.3                | 718.9                 | 43.43                   | 17.554            |                           |         |
| 7,075.9   | 6,567.2             | 7,115.1             | 6,646.7             | 22.6            | 22.1        | 95.99                 | -106.0                            | 367.6      | 762.3                | 717.9                 | 44.46                   | 17.148            |                           |         |
| 7,100.0   | 6,567.1             | 7,139.3             | 6,646.6             | 23.0            | 22.5        | 95.99                 | -106.0                            | 391.8      | 762.3                | 716.9                 | 45.39                   | 16.794            |                           |         |
| 7,200.0   | 6,566.6             | 7,239.3             | 6,646.0             | 25.1            | 24.6        | 95.97                 | -106.0                            | 491.8      | 762.3                | 712.9                 | 49.44                   | 15.419            |                           |         |
| 7,300.0   | 6,566.2             | 7,339.3             | 6,645.4             | 27.3            | 26.7        | 95.96                 | -106.0                            | 591.8      | 762.3                | 708.5                 | 53.76                   | 14.180            |                           |         |
| 7,400.0   | 6,565.8             | 7,439.3             | 6,644.8             | 29.6            | 29.0        | 95.95                 | -106.0                            | 691.8      | 762.3                | 704.0                 | 58.29                   | 13.076            |                           |         |
| 7,500.0   | 6,565.3             | 7,539.3             | 6,644.2             | 32.0            | 31.4        | 95.94                 | -106.0                            | 791.8      | 762.3                | 699.3                 | 63.00                   | 12.099            |                           |         |
| 7,600.0   | 6,564.9             | 7,639.3             | 6,643.6             | 34.4            | 33.8        | 95.93                 | -106.0                            | 891.8      | 762.2                | 694.4                 | 67.84                   | 11.235            |                           |         |
| 7,700.0   | 6,564.5             | 7,739.3             | 6,643.0             | 36.9            | 36.3        | 95.91                 | -106.0                            | 991.8      | 762.2                | 689.4                 | 72.79                   | 10.471            |                           |         |
| 7,800.0   | 6,564.0             | 7,839.3             | 6,642.4             | 39.4            | 38.9        | 95.90                 | -106.0                            | 1,091.8    | 762.2                | 684.4                 | 77.83                   | 9.793             |                           |         |
| 7,900.0   | 6,563.6             | 7,939.3             | 6,641.8             | 42.0            | 41.4        | 95.89                 | -106.0                            | 1,191.8    | 762.2                | 679.3                 | 82.94                   | 9.190             |                           |         |
| 8,000.0   | 6,563.1             | 8,039.3             | 6,641.2             | 44.6            | 44.0        | 95.88                 | -106.0                            | 1,291.8    | 762.2                | 674.1                 | 88.11                   | 8.650             |                           |         |
| 8,100.0   | 6,562.7             | 8,139.3             | 6,640.6             | 47.2            | 46.7        | 95.87                 | -106.0                            | 1,391.8    | 762.2                | 668.8                 | 93.33                   | 8.167             |                           |         |
| 8,200.0   | 6,562.3             | 8,239.3             | 6,640.0             | 49.8            | 49.3        | 95.86                 | -106.0                            | 1,491.8    | 762.1                | 663.6                 | 98.59                   | 7.731             |                           |         |
| 8,300.0   | 6,561.8             | 8,339.3             | 6,639.4             | 52.5            | 52.0        | 95.84                 | -106.0                            | 1,591.8    | 762.1                | 658.2                 | 103.88                  | 7.337             |                           |         |

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



|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1) |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | 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 (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 |                    |         |
| 8,400.0   | 6,561.4             | 8,439.3             | 6,638.8             | 55.1            | 54.6        | 95.83                 | -106.0                            | 1,691.8    | 762.1                | 652.9                 | 109.21                  | 6.979             |                    |         |
| 8,500.0   | 6,561.0             | 8,539.3             | 6,638.3             | 57.8            | 57.3        | 95.82                 | -106.0                            | 1,791.8    | 762.1                | 647.5                 | 114.56                  | 6.653             |                    |         |
| 8,600.0   | 6,560.5             | 8,639.3             | 6,637.7             | 60.5            | 60.0        | 95.81                 | -106.0                            | 1,891.8    | 762.1                | 642.1                 | 119.93                  | 6.354             |                    |         |
| 8,700.0   | 6,560.1             | 8,739.3             | 6,637.1             | 63.2            | 62.7        | 95.80                 | -106.0                            | 1,991.8    | 762.1                | 636.7                 | 125.32                  | 6.081             |                    |         |
| 8,800.0   | 6,559.7             | 8,839.3             | 6,636.5             | 65.9            | 65.5        | 95.79                 | -106.0                            | 2,091.8    | 762.0                | 631.3                 | 130.74                  | 5.829             |                    |         |
| 8,900.0   | 6,559.2             | 8,939.3             | 6,635.9             | 68.6            | 68.2        | 95.77                 | -106.0                            | 2,191.8    | 762.0                | 625.9                 | 136.16                  | 5.597             |                    |         |
| 9,000.0   | 6,558.8             | 9,039.3             | 6,635.3             | 71.4            | 70.9        | 95.76                 | -106.0                            | 2,291.8    | 762.0                | 620.4                 | 141.60                  | 5.381             |                    |         |
| 9,100.0   | 6,558.3             | 9,139.3             | 6,634.7             | 74.1            | 73.7        | 95.75                 | -106.0                            | 2,391.8    | 762.0                | 614.9                 | 147.05                  | 5.182             |                    |         |
| 9,200.0   | 6,557.9             | 9,239.3             | 6,634.1             | 76.8            | 76.4        | 95.74                 | -106.0                            | 2,491.8    | 762.0                | 609.5                 | 152.51                  | 4.996             |                    |         |
| 9,300.0   | 6,557.5             | 9,339.3             | 6,633.5             | 79.6            | 79.2        | 95.73                 | -106.0                            | 2,591.8    | 762.0                | 604.0                 | 157.99                  | 4.823             |                    |         |
| 9,400.0   | 6,557.0             | 9,439.3             | 6,632.9             | 82.3            | 81.9        | 95.71                 | -106.0                            | 2,691.8    | 761.9                | 598.5                 | 163.47                  | 4.661             |                    |         |
| 9,500.0   | 6,556.6             | 9,539.3             | 6,632.3             | 85.1            | 84.7        | 95.70                 | -106.0                            | 2,791.8    | 761.9                | 593.0                 | 168.96                  | 4.510             |                    |         |
| 9,600.0   | 6,556.2             | 9,639.3             | 6,631.7             | 87.8            | 87.4        | 95.69                 | -106.0                            | 2,891.8    | 761.9                | 587.5                 | 174.45                  | 4.368             |                    |         |
| 9,700.0   | 6,555.7             | 9,739.3             | 6,631.1             | 90.6            | 90.2        | 95.68                 | -106.0                            | 2,991.8    | 761.9                | 581.9                 | 179.95                  | 4.234             |                    |         |
| 9,800.0   | 6,555.3             | 9,839.3             | 6,630.5             | 93.3            | 92.9        | 95.67                 | -106.0                            | 3,091.8    | 761.9                | 576.4                 | 185.46                  | 4.108             |                    |         |
| 9,900.0   | 6,554.9             | 9,939.3             | 6,629.9             | 96.1            | 95.7        | 95.66                 | -106.0                            | 3,191.8    | 761.9                | 570.9                 | 190.97                  | 3.989             |                    |         |
| 10,000.0  | 6,554.4             | 10,039.3            | 6,629.4             | 98.9            | 98.5        | 95.64                 | -106.0                            | 3,291.8    | 761.9                | 565.4                 | 196.49                  | 3.877             |                    |         |
| 10,100.0  | 6,554.0             | 10,139.3            | 6,628.8             | 101.6           | 101.3       | 95.63                 | -106.0                            | 3,391.8    | 761.8                | 559.8                 | 202.02                  | 3.771             |                    |         |
| 10,200.0  | 6,553.5             | 10,239.3            | 6,628.2             | 104.4           | 104.0       | 95.62                 | -106.0                            | 3,491.8    | 761.8                | 554.3                 | 207.54                  | 3.671             |                    |         |
| 10,300.0  | 6,553.1             | 10,339.3            | 6,627.6             | 107.2           | 106.8       | 95.61                 | -106.0                            | 3,591.8    | 761.8                | 548.7                 | 213.07                  | 3.575             |                    |         |
| 10,400.0  | 6,552.7             | 10,439.3            | 6,627.0             | 110.0           | 109.6       | 95.60                 | -106.0                            | 3,691.8    | 761.8                | 543.2                 | 218.61                  | 3.485             |                    |         |
| 10,500.0  | 6,552.2             | 10,539.3            | 6,626.4             | 112.7           | 112.4       | 95.59                 | -106.0                            | 3,791.8    | 761.8                | 537.6                 | 224.15                  | 3.399             |                    |         |
| 10,600.0  | 6,551.8             | 10,639.3            | 6,625.8             | 115.5           | 115.2       | 95.57                 | -106.0                            | 3,891.8    | 761.8                | 532.1                 | 229.69                  | 3.316             |                    |         |
| 10,700.0  | 6,551.4             | 10,739.3            | 6,625.2             | 118.3           | 117.9       | 95.56                 | -106.0                            | 3,991.8    | 761.7                | 526.5                 | 235.23                  | 3.238             |                    |         |
| 10,800.0  | 6,550.9             | 10,839.3            | 6,624.6             | 121.1           | 120.7       | 95.55                 | -106.0                            | 4,091.8    | 761.7                | 520.9                 | 240.78                  | 3.164             |                    |         |
| 10,900.0  | 6,550.5             | 10,939.3            | 6,624.0             | 123.8           | 123.5       | 95.54                 | -106.0                            | 4,191.8    | 761.7                | 515.4                 | 246.33                  | 3.092             |                    |         |
| 11,000.0  | 6,550.1             | 11,039.3            | 6,623.4             | 126.6           | 126.3       | 95.53                 | -106.0                            | 4,291.8    | 761.7                | 509.8                 | 251.88                  | 3.024             |                    |         |
| 11,100.0  | 6,549.6             | 11,139.3            | 6,622.8             | 129.4           | 129.1       | 95.52                 | -106.0                            | 4,391.8    | 761.7                | 504.2                 | 257.44                  | 2.959             |                    |         |
| 11,200.0  | 6,549.2             | 11,239.3            | 6,622.2             | 132.2           | 131.9       | 95.50                 | -106.0                            | 4,491.8    | 761.7                | 498.7                 | 263.00                  | 2.896             |                    |         |
| 11,300.0  | 6,548.8             | 11,339.3            | 6,621.6             | 135.0           | 134.7       | 95.49                 | -106.0                            | 4,591.8    | 761.6                | 493.1                 | 268.55                  | 2.836             |                    |         |
| 11,400.0  | 6,548.3             | 11,439.3            | 6,621.0             | 137.8           | 137.4       | 95.48                 | -106.0                            | 4,691.7    | 761.6                | 487.5                 | 274.12                  | 2.779             |                    |         |
| 11,500.0  | 6,547.9             | 11,539.3            | 6,620.5             | 140.6           | 140.2       | 95.47                 | -106.0                            | 4,791.7    | 761.6                | 481.9                 | 279.68                  | 2.723             |                    |         |
| 11,600.0  | 6,547.4             | 11,639.3            | 6,619.9             | 143.4           | 143.0       | 95.46                 | -106.0                            | 4,891.7    | 761.6                | 476.4                 | 285.24                  | 2.670             |                    |         |
| 11,700.0  | 6,547.0             | 11,739.3            | 6,619.3             | 146.1           | 145.8       | 95.44                 | -106.0                            | 4,991.7    | 761.6                | 470.8                 | 290.81                  | 2.619             |                    |         |
| 11,800.0  | 6,546.6             | 11,839.3            | 6,618.7             | 148.9           | 148.6       | 95.43                 | -106.0                            | 5,091.7    | 761.6                | 465.2                 | 296.38                  | 2.570             |                    |         |
| 11,900.0  | 6,546.1             | 11,939.3            | 6,618.1             | 151.7           | 151.4       | 95.42                 | -106.0                            | 5,191.7    | 761.6                | 459.6                 | 301.95                  | 2.522             |                    |         |
| 12,000.0  | 6,545.7             | 12,039.3            | 6,617.5             | 154.5           | 154.2       | 95.41                 | -106.0                            | 5,291.7    | 761.5                | 454.0                 | 307.52                  | 2.476             |                    |         |
| 12,100.0  | 6,545.3             | 12,139.3            | 6,616.9             | 157.3           | 157.0       | 95.40                 | -106.0                            | 5,391.7    | 761.5                | 448.4                 | 313.09                  | 2.432             |                    |         |
| 12,200.0  | 6,544.8             | 12,239.3            | 6,616.3             | 160.1           | 159.8       | 95.39                 | -106.0                            | 5,491.7    | 761.5                | 442.8                 | 318.66                  | 2.390             |                    |         |
| 12,300.0  | 6,544.4             | 12,339.3            | 6,615.7             | 162.9           | 162.6       | 95.37                 | -106.0                            | 5,591.7    | 761.5                | 437.3                 | 324.23                  | 2.349             |                    |         |
| 12,400.0  | 6,544.0             | 12,439.3            | 6,615.1             | 165.7           | 165.4       | 95.36                 | -106.0                            | 5,691.7    | 761.5                | 431.7                 | 329.81                  | 2.309             |                    |         |
| 12,500.0  | 6,543.5             | 12,539.3            | 6,614.5             | 168.5           | 168.2       | 95.35                 | -106.0                            | 5,791.7    | 761.5                | 426.1                 | 335.39                  | 2.270             |                    |         |
| 12,600.0  | 6,543.1             | 12,639.3            | 6,613.9             | 171.3           | 171.0       | 95.34                 | -106.0                            | 5,891.7    | 761.4                | 420.5                 | 340.96                  | 2.233             |                    |         |
| 12,700.0  | 6,542.6             | 12,739.3            | 6,613.3             | 174.1           | 173.8       | 95.33                 | -106.0                            | 5,991.7    | 761.4                | 414.9                 | 346.54                  | 2.197             |                    |         |
| 12,800.0  | 6,542.2             | 12,839.3            | 6,612.7             | 176.9           | 176.6       | 95.32                 | -106.0                            | 6,091.7    | 761.4                | 409.3                 | 352.12                  | 2.162             |                    |         |
| 12,900.0  | 6,541.8             | 12,939.3            | 6,612.1             | 179.7           | 179.4       | 95.30                 | -106.0                            | 6,191.7    | 761.4                | 403.7                 | 357.70                  | 2.129             |                    |         |
| 13,000.0  | 6,541.3             | 13,039.3            | 6,611.6             | 182.5           | 182.2       | 95.29                 | -106.0                            | 6,291.7    | 761.4                | 398.1                 | 363.28                  | 2.096             |                    |         |
| 13,100.0  | 6,540.9             | 13,139.3            | 6,611.0             | 185.3           | 185.0       | 95.28                 | -106.0                            | 6,391.7    | 761.4                | 392.5                 | 368.87                  | 2.064             |                    |         |
| 13,200.0  | 6,540.5             | 13,239.3            | 6,610.4             | 188.1           | 187.8       | 95.27                 | -106.0                            | 6,491.7    | 761.4                | 386.9                 | 374.45                  | 2.033             |                    |         |
| 13,300.0  | 6,540.0             | 13,339.3            | 6,609.8             | 190.9           | 190.6       | 95.26                 | -106.0                            | 6,591.7    | 761.3                | 381.3                 | 380.03                  | 2.003             |                    |         |
| 13,400.0  | 6,539.6             | 13,439.3            | 6,609.2             | 193.7           | 193.4       | 95.24                 | -106.0                            | 6,691.7    | 761.3                | 375.7                 | 385.62                  | 1.974             |                    |         |

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

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extension (3-3-16)           | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design         |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1) |         | 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 (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              | 6,539.2             | 13,539.3            | 6,608.6             | 196.5           | 196.2       | 95.23                 | -106.0                            | 6,791.7    | 761.3                | 370.1                 | 391.21                  | 1.946             |   |         |                    |  |        |
| 13,600.0              | 6,538.7             | 13,639.3            | 6,608.0             | 199.3           | 199.0       | 95.22                 | -106.0                            | 6,891.7    | 761.3                | 364.5                 | 396.79                  | 1.919             |   |         |                    |  |        |
| 13,700.0              | 6,538.3             | 13,739.3            | 6,607.4             | 202.1           | 201.8       | 95.21                 | -106.0                            | 6,991.7    | 761.3                | 358.9                 | 402.38                  | 1.892             |   |         |                    |  |        |
| 13,800.0              | 6,537.8             | 13,839.3            | 6,606.8             | 204.9           | 204.6       | 95.20                 | -106.0                            | 7,091.7    | 761.3                | 353.3                 | 407.97                  | 1.866             |   |         |                    |  |        |
| 13,900.0              | 6,537.4             | 13,939.3            | 6,606.2             | 207.7           | 207.4       | 95.19                 | -106.0                            | 7,191.7    | 761.3                | 347.7                 | 413.55                  | 1.841             |   |         |                    |  |        |
| 14,000.0              | 6,537.0             | 14,039.3            | 6,605.6             | 210.5           | 210.2       | 95.17                 | -106.0                            | 7,291.7    | 761.2                | 342.1                 | 419.14                  | 1.816             |   |         |                    |  |        |
| 14,100.0              | 6,536.5             | 14,139.3            | 6,605.0             | 213.3           | 213.0       | 95.16                 | -106.0                            | 7,391.7    | 761.2                | 336.5                 | 424.73                  | 1.792             |   |         |                    |  |        |
| 14,200.0              | 6,536.1             | 14,239.3            | 6,604.4             | 216.1           | 215.8       | 95.15                 | -106.0                            | 7,491.7    | 761.2                | 330.9                 | 430.32                  | 1.769             |   |         |                    |  |        |
| 14,300.0              | 6,535.7             | 14,339.3            | 6,603.8             | 218.9           | 218.6       | 95.14                 | -106.0                            | 7,591.7    | 761.2                | 325.3                 | 435.91                  | 1.746             |   |         |                    |  |        |
| 14,400.0              | 6,535.2             | 14,439.3            | 6,603.2             | 221.7           | 221.4       | 95.13                 | -106.0                            | 7,691.7    | 761.2                | 319.7                 | 441.51                  | 1.724             |   |         |                    |  |        |
| 14,500.0              | 6,534.8             | 14,539.3            | 6,602.7             | 224.5           | 224.2       | 95.12                 | -106.0                            | 7,791.7    | 761.2                | 314.1                 | 447.10                  | 1.702             |   |         |                    |  |        |
| 14,600.0              | 6,534.4             | 14,639.3            | 6,602.1             | 227.3           | 227.0       | 95.10                 | -106.0                            | 7,891.7    | 761.2                | 308.5                 | 452.69                  | 1.681             |   |         |                    |  |        |
| 14,700.0              | 6,533.9             | 14,739.3            | 6,601.5             | 230.1           | 229.8       | 95.09                 | -106.0                            | 7,991.7    | 761.1                | 302.9                 | 458.28                  | 1.661             |   |         |                    |  |        |
| 14,800.0              | 6,533.5             | 14,839.3            | 6,600.9             | 232.9           | 232.6       | 95.08                 | -106.0                            | 8,091.7    | 761.1                | 297.2                 | 463.88                  | 1.641             |   |         |                    |  |        |
| 14,900.0              | 6,533.0             | 14,939.3            | 6,600.3             | 235.7           | 235.4       | 95.07                 | -106.0                            | 8,191.7    | 761.1                | 291.6                 | 469.47                  | 1.621             |   |         |                    |  |        |
| 15,000.0              | 6,532.6             | 15,039.3            | 6,599.7             | 238.5           | 238.2       | 95.06                 | -106.0                            | 8,291.7    | 761.1                | 286.0                 | 475.07                  | 1.602             |   |         |                    |  |        |
| 15,100.0              | 6,532.2             | 15,139.3            | 6,599.1             | 241.3           | 241.0       | 95.04                 | -106.0                            | 8,391.7    | 761.1                | 280.4                 | 480.66                  | 1.583             |   |         |                    |  |        |
| 15,200.0              | 6,531.7             | 15,239.3            | 6,598.5             | 244.1           | 243.8       | 95.03                 | -106.0                            | 8,491.7    | 761.1                | 274.8                 | 486.26                  | 1.565             |   |         |                    |  |        |
| 15,300.0              | 6,531.3             | 15,339.3            | 6,597.9             | 246.9           | 246.6       | 95.02                 | -106.0                            | 8,591.7    | 761.1                | 269.2                 | 491.85                  | 1.547             |   |         |                    |  |        |
| 15,400.0              | 6,530.9             | 15,439.3            | 6,597.3             | 249.7           | 249.4       | 95.01                 | -106.0                            | 8,691.7    | 761.0                | 263.6                 | 497.45                  | 1.530             |   |         |                    |  |        |
| 15,500.0              | 6,530.4             | 15,539.3            | 6,596.7             | 252.5           | 252.2       | 95.00                 | -106.0                            | 8,791.7    | 761.0                | 258.0                 | 503.05                  | 1.513             |   |         |                    |  |        |
| 15,600.0              | 6,530.0             | 15,639.3            | 6,596.1             | 255.3           | 255.0       | 94.99                 | -106.0                            | 8,891.7    | 761.0                | 252.4                 | 508.64                  | 1.496 Level 3     |   |         |                    |  |        |
| 15,700.0              | 6,529.6             | 15,739.3            | 6,595.5             | 258.1           | 257.8       | 94.97                 | -106.0                            | 8,991.7    | 761.0                | 246.8                 | 514.24                  | 1.480 Level 3     |   |         |                    |  |        |
| 15,800.0              | 6,529.1             | 15,839.3            | 6,594.9             | 260.9           | 260.6       | 94.96                 | -106.0                            | 9,091.7    | 761.0                | 241.1                 | 519.84                  | 1.464 Level 3     |   |         |                    |  |        |
| 15,900.0              | 6,528.7             | 15,939.3            | 6,594.3             | 263.7           | 263.4       | 94.95                 | -106.0                            | 9,191.7    | 761.0                | 235.5                 | 525.44                  | 1.448 Level 3     |   |         |                    |  |        |
| 16,000.0              | 6,528.2             | 16,039.3            | 6,593.7             | 266.5           | 266.2       | 94.94                 | -106.0                            | 9,291.7    | 761.0                | 229.9                 | 531.04                  | 1.433 Level 3     |   |         |                    |  |        |
| 16,100.0              | 6,527.8             | 16,139.3            | 6,593.2             | 269.3           | 269.0       | 94.93                 | -106.0                            | 9,391.7    | 760.9                | 224.3                 | 536.64                  | 1.418 Level 3     |   |         |                    |  |        |
| 16,200.0              | 6,527.4             | 16,239.3            | 6,592.6             | 272.1           | 271.8       | 94.91                 | -106.0                            | 9,491.7    | 760.9                | 218.7                 | 542.24                  | 1.403 Level 3     |   |         |                    |  |        |
| 16,284.8              | 6,527.0             | 16,324.1            | 6,592.1             | 274.5           | 274.2       | 94.90                 | -106.0                            | 9,576.5    | 760.9                | 213.9                 | 546.99                  | 1.391 Level 3, SF |   |         |                    |  |        |

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.0 ft  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.0 ft  |
| Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-402 - Wellbore #1 - Plan #1 Extension (3-4-1) |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                    |         |
| 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 |
| 3,400.0   | 3,365.2             | 3,632.5             | 3,572.9             | 10.4            | 13.0        | 26.48                 | 1,276.3                           | -310.7     | 976.8                | 959.7                 | 17.07                   | 57.228             |         |
| 3,500.0   | 3,463.4             | 3,724.8             | 3,662.8             | 10.8            | 13.4        | 26.59                 | 1,255.5                           | -314.7     | 938.6                | 921.0                 | 17.61                   | 53.290             |         |
| 3,600.0   | 3,561.6             | 3,817.2             | 3,752.7             | 11.2            | 13.9        | 26.70                 | 1,234.8                           | -318.8     | 900.3                | 882.2                 | 18.16                   | 49.585             |         |
| 3,700.0   | 3,659.8             | 3,909.6             | 3,842.6             | 11.6            | 14.3        | 26.83                 | 1,214.0                           | -322.9     | 862.1                | 843.4                 | 18.70                   | 46.094             |         |
| 3,800.0   | 3,758.0             | 4,002.0             | 3,932.6             | 12.0            | 14.8        | 26.97                 | 1,193.3                           | -326.9     | 823.8                | 804.6                 | 19.25                   | 42.799             |         |
| 3,900.0   | 3,856.2             | 4,094.4             | 4,022.5             | 12.4            | 15.2        | 27.12                 | 1,172.5                           | -331.0     | 785.6                | 765.8                 | 19.80                   | 39.684             |         |
| 4,000.0   | 3,954.4             | 4,186.7             | 4,112.4             | 12.8            | 15.7        | 27.28                 | 1,151.8                           | -335.0     | 747.4                | 727.0                 | 20.34                   | 36.736             |         |
| 4,100.0   | 4,052.5             | 4,279.1             | 4,202.4             | 13.3            | 16.1        | 27.47                 | 1,131.0                           | -339.1     | 709.2                | 688.3                 | 20.89                   | 33.941             |         |
| 4,200.0   | 4,150.7             | 4,371.5             | 4,292.3             | 13.7            | 16.6        | 27.67                 | 1,110.3                           | -343.1     | 670.9                | 649.5                 | 21.44                   | 31.289             |         |
| 4,300.0   | 4,248.9             | 4,463.9             | 4,382.2             | 14.1            | 17.0        | 27.90                 | 1,089.5                           | -347.2     | 632.7                | 610.7                 | 21.99                   | 28.768             |         |
| 4,400.0   | 4,347.1             | 4,556.3             | 4,472.1             | 14.5            | 17.5        | 28.16                 | 1,068.8                           | -351.2     | 594.5                | 572.0                 | 22.55                   | 26.370             |         |
| 4,500.0   | 4,445.3             | 4,648.6             | 4,562.1             | 14.9            | 17.9        | 28.46                 | 1,048.0                           | -355.3     | 556.3                | 533.2                 | 23.10                   | 24.086             |         |
| 4,600.0   | 4,543.5             | 4,741.0             | 4,652.0             | 15.3            | 18.4        | 28.80                 | 1,027.2                           | -359.4     | 518.2                | 494.5                 | 23.65                   | 21.908             |         |
| 4,700.0   | 4,641.6             | 4,833.4             | 4,741.9             | 15.7            | 18.8        | 29.19                 | 1,006.5                           | -363.4     | 480.0                | 455.8                 | 24.21                   | 19.828             |         |
| 4,800.0   | 4,739.8             | 4,925.8             | 4,831.9             | 16.2            | 19.3        | 29.65                 | 985.7                             | -367.5     | 441.9                | 417.1                 | 24.77                   | 17.841             |         |
| 4,900.0   | 4,838.0             | 5,018.2             | 4,921.8             | 16.6            | 19.7        | 30.20                 | 965.0                             | -371.5     | 403.8                | 378.5                 | 25.33                   | 15.941             |         |
| 5,000.0   | 4,936.2             | 5,110.6             | 5,011.7             | 17.0            | 20.2        | 30.86                 | 944.2                             | -375.6     | 365.7                | 339.8                 | 25.90                   | 14.122             |         |
| 5,100.0   | 5,034.4             | 5,197.0             | 5,096.0             | 17.4            | 20.6        | 31.64                 | 925.3                             | -379.3     | 328.2                | 301.8                 | 26.44                   | 12.412             |         |
| 5,122.6   | 5,056.6             | 5,216.0             | 5,114.5             | 17.5            | 20.6        | 31.84                 | 921.4                             | -380.0     | 320.1                | 293.5                 | 26.56                   | 12.051             |         |
| 5,200.0   | 5,132.8             | 5,281.9             | 5,179.2             | 17.8            | 20.8        | 32.28                 | 908.9                             | -382.5     | 294.2                | 267.1                 | 27.03                   | 10.881             |         |
| 5,300.0   | 5,231.7             | 5,369.2             | 5,265.3             | 18.1            | 21.1        | 32.84                 | 894.6                             | -385.3     | 265.7                | 238.1                 | 27.57                   | 9.635              |         |
| 5,400.0   | 5,331.1             | 5,458.7             | 5,354.0             | 18.3            | 21.3        | 33.36                 | 882.7                             | -387.6     | 243.1                | 215.0                 | 28.07                   | 8.658              |         |
| 5,500.0   | 5,430.8             | 5,549.9             | 5,444.7             | 18.5            | 21.5        | 33.75                 | 873.3                             | -389.4     | 226.4                | 197.8                 | 28.52                   | 7.936              |         |
| 5,600.0   | 5,530.7             | 5,642.3             | 5,536.8             | 18.7            | 21.7        | 33.92                 | 866.7                             | -390.7     | 215.7                | 186.8                 | 28.92                   | 7.458              |         |
| 5,669.3   | 5,600.0             | 5,706.8             | 5,601.2             | 18.7            | 21.8        | 2.35                  | 863.8                             | -391.3     | 211.9                | 173.1                 | 38.74                   | 5.469              |         |
| 5,700.0   | 5,630.7             | 5,735.3             | 5,629.8             | 18.8            | 21.8        | 2.32                  | 862.9                             | -391.5     | 211.0                | 172.1                 | 38.82                   | 5.434              |         |
| 5,800.0   | 5,730.7             | 5,830.2             | 5,724.7             | 18.9            | 21.9        | 2.28                  | 862.1                             | -391.6     | 210.1                | 171.0                 | 39.10                   | 5.372              |         |
| 5,872.6   | 5,803.2             | 5,902.8             | 5,797.2             | 19.0            | 22.0        | 2.28                  | 862.1                             | -391.6     | 210.1                | 170.8                 | 39.29                   | 5.346              |         |
| 5,900.0   | 5,830.7             | 5,930.2             | 5,824.7             | 19.1            | 22.0        | -87.85                | 862.1                             | -391.6     | 210.0                | 180.1                 | 29.94                   | 7.015              |         |
| 5,950.0   | 5,880.5             | 5,980.1             | 5,874.5             | 19.1            | 22.1        | -88.79                | 862.1                             | -391.6     | 209.9                | 179.9                 | 30.04                   | 6.988              |         |
| 5,985.8   | 5,916.0             | 6,015.6             | 5,910.0             | 19.1            | 22.1        | -90.00                | 862.1                             | -391.6     | 209.9                | 179.8                 | 30.09                   | 6.974 CC           |         |
| 6,000.0   | 5,930.1             | 6,029.7             | 5,924.1             | 19.1            | 22.1        | -90.60                | 862.1                             | -391.6     | 209.9                | 179.8                 | 30.12                   | 6.970              |         |
| 6,050.0   | 5,979.1             | 6,078.9             | 5,973.3             | 19.2            | 22.2        | -93.19                | 862.1                             | -391.5     | 210.2                | 180.0                 | 30.19                   | 6.963              |         |
| 6,100.0   | 6,027.3             | 6,128.9             | 6,023.2             | 19.2            | 22.2        | -95.98                | 862.1                             | -388.8     | 211.1                | 180.8                 | 30.29                   | 6.969              |         |
| 6,150.0   | 6,074.6             | 6,179.6             | 6,073.6             | 19.1            | 22.3        | -98.73                | 862.1                             | -382.8     | 212.5                | 182.1                 | 30.38                   | 6.993              |         |
| 6,200.0   | 6,120.7             | 6,231.1             | 6,124.2             | 19.1            | 22.3        | -101.43               | 862.1                             | -373.2     | 214.3                | 183.9                 | 30.45                   | 7.038              |         |
| 6,250.0   | 6,165.5             | 6,283.4             | 6,174.7             | 19.1            | 22.3        | -104.05               | 862.1                             | -360.1     | 216.6                | 186.1                 | 30.49                   | 7.105              |         |
| 6,300.0   | 6,208.7             | 6,336.4             | 6,225.0             | 19.0            | 22.4        | -106.58               | 862.1                             | -343.3     | 219.4                | 188.9                 | 30.48                   | 7.197              |         |
| 6,350.0   | 6,250.2             | 6,390.3             | 6,274.8             | 19.0            | 22.4        | -109.00               | 862.1                             | -322.7     | 222.4                | 192.0                 | 30.42                   | 7.313              |         |
| 6,400.0   | 6,289.7             | 6,445.0             | 6,323.7             | 18.9            | 22.4        | -111.30               | 862.1                             | -298.2     | 225.8                | 195.5                 | 30.30                   | 7.452              |         |
| 6,450.0   | 6,327.2             | 6,500.5             | 6,371.4             | 18.9            | 22.4        | -113.46               | 862.1                             | -269.8     | 229.4                | 199.3                 | 30.15                   | 7.610              |         |
| 6,500.0   | 6,362.5             | 6,556.8             | 6,417.6             | 18.8            | 22.5        | -115.47               | 862.1                             | -237.6     | 233.2                | 203.2                 | 29.96                   | 7.782              |         |
| 6,550.0   | 6,395.3             | 6,614.0             | 6,461.9             | 18.7            | 22.5        | -117.34               | 862.1                             | -201.5     | 237.0                | 207.2                 | 29.77                   | 7.959              |         |
| 6,600.0   | 6,425.6             | 6,672.1             | 6,504.0             | 18.7            | 22.5        | -119.05               | 862.1                             | -161.5     | 240.8                | 211.1                 | 29.66                   | 8.118              |         |
| 6,650.0   | 6,453.3             | 6,730.9             | 6,543.5             | 18.6            | 22.6        | -120.61               | 862.1                             | -117.9     | 244.5                | 214.9                 | 29.58                   | 8.267              |         |
| 6,700.0   | 6,478.1             | 6,790.5             | 6,579.9             | 18.6            | 22.7        | -122.00               | 862.1                             | -70.8      | 248.1                | 218.5                 | 29.62                   | 8.376              |         |
| 6,750.0   | 6,500.1             | 6,850.8             | 6,612.9             | 18.5            | 22.8        | -123.24               | 862.1                             | -20.3      | 251.5                | 221.6                 | 29.83                   | 8.429              |         |
| 6,800.0   | 6,519.1             | 6,911.8             | 6,642.1             | 18.5            | 22.9        | -124.31               | 862.1                             | 33.2       | 254.5                | 224.3                 | 30.26                   | 8.411              |         |
| 6,850.0   | 6,535.0             | 6,973.3             | 6,667.2             | 18.6            | 23.2        | -125.23               | 862.1                             | 89.4       | 257.3                | 226.3                 | 30.93                   | 8.318              |         |
| 6,900.0   | 6,547.8             | 7,035.4             | 6,687.8             | 19.4            | 23.5        | -125.98               | 862.1                             | 148.0      | 259.6                | 227.7                 | 31.85                   | 8.150              |         |
| 6,950.0   | 6,557.4             | 7,098.0             | 6,703.7             | 20.2            | 23.9        | -126.58               | 862.1                             | 208.4      | 261.5                | 228.5                 | 33.04                   | 7.913              |         |

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

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 |                    |  |        |
| 7,000.0               | 6,563.7             | 7,160.9             | 6,714.7             | 21.1            | 24.5        | -127.01               | 862.1                             | 270.3      | 262.9                | 228.4                 | 34.50                   | 7.620             |                    |  |        |
| 7,050.0               | 6,566.9             | 7,224.0             | 6,720.5             | 22.1            | 25.3        | -127.29               | 862.1                             | 333.2      | 263.8                | 227.6                 | 36.21                   | 7.287             |                    |  |        |
| 7,075.9               | 6,567.2             | 7,256.8             | 6,721.5             | 22.6            | 25.8        | -127.37               | 862.1                             | 365.9      | 264.1                | 226.9                 | 37.17                   | 7.105             |                    |  |        |
| 7,100.0               | 6,567.1             | 7,282.7             | 6,721.4             | 23.0            | 26.2        | -127.38               | 862.1                             | 391.9      | 264.1                | 226.2                 | 37.98                   | 6.955             |                    |  |        |
| 7,200.0               | 6,566.6             | 7,382.7             | 6,721.1             | 25.1            | 27.9        | -127.40               | 862.1                             | 491.9      | 264.2                | 222.8                 | 41.38                   | 6.385             |                    |  |        |
| 7,300.0               | 6,566.2             | 7,482.7             | 6,720.8             | 27.3            | 29.8        | -127.42               | 862.1                             | 591.9      | 264.3                | 219.3                 | 44.97                   | 5.876             |                    |  |        |
| 7,400.0               | 6,565.8             | 7,582.7             | 6,720.5             | 29.6            | 32.0        | -127.44               | 862.1                             | 691.9      | 264.3                | 215.6                 | 48.72                   | 5.425             |                    |  |        |
| 7,500.0               | 6,565.3             | 7,682.7             | 6,720.1             | 32.0            | 34.2        | -127.46               | 862.1                             | 791.9      | 264.4                | 211.8                 | 52.60                   | 5.027             |                    |  |        |
| 7,600.0               | 6,564.9             | 7,782.7             | 6,719.8             | 34.4            | 36.5        | -127.47               | 862.1                             | 891.9      | 264.5                | 207.9                 | 56.57                   | 4.675             |                    |  |        |
| 7,700.0               | 6,564.5             | 7,882.7             | 6,719.5             | 36.9            | 39.0        | -127.49               | 862.1                             | 991.9      | 264.5                | 203.9                 | 60.62                   | 4.364             |                    |  |        |
| 7,800.0               | 6,564.0             | 7,982.7             | 6,719.1             | 39.4            | 41.4        | -127.51               | 862.1                             | 1,091.9    | 264.6                | 199.9                 | 64.73                   | 4.088             |                    |  |        |
| 7,900.0               | 6,563.6             | 8,082.7             | 6,718.8             | 42.0            | 43.9        | -127.53               | 862.1                             | 1,191.9    | 264.6                | 195.8                 | 68.89                   | 3.842             |                    |  |        |
| 8,000.0               | 6,563.1             | 8,182.7             | 6,718.5             | 44.6            | 46.5        | -127.55               | 862.1                             | 1,291.9    | 264.7                | 191.6                 | 73.09                   | 3.622             |                    |  |        |
| 8,100.0               | 6,562.7             | 8,282.7             | 6,718.1             | 47.2            | 49.1        | -127.56               | 862.1                             | 1,391.9    | 264.8                | 187.4                 | 77.33                   | 3.424             |                    |  |        |
| 8,200.0               | 6,562.3             | 8,382.7             | 6,717.8             | 49.8            | 51.7        | -127.58               | 862.1                             | 1,491.9    | 264.8                | 183.2                 | 81.60                   | 3.246             |                    |  |        |
| 8,300.0               | 6,561.8             | 8,482.7             | 6,717.5             | 52.5            | 54.3        | -127.60               | 862.1                             | 1,591.9    | 264.9                | 179.0                 | 85.89                   | 3.084             |                    |  |        |
| 8,400.0               | 6,561.4             | 8,582.7             | 6,717.1             | 55.1            | 56.9        | -127.62               | 862.1                             | 1,691.9    | 265.0                | 174.8                 | 90.20                   | 2.938             |                    |  |        |
| 8,500.0               | 6,561.0             | 8,682.7             | 6,716.8             | 57.8            | 59.6        | -127.64               | 862.1                             | 1,791.9    | 265.0                | 170.5                 | 94.53                   | 2.804             |                    |  |        |
| 8,600.0               | 6,560.5             | 8,782.7             | 6,716.5             | 60.5            | 62.3        | -127.65               | 862.1                             | 1,891.9    | 265.1                | 166.2                 | 98.87                   | 2.681             |                    |  |        |
| 8,700.0               | 6,560.1             | 8,882.7             | 6,716.1             | 63.2            | 65.0        | -127.67               | 862.1                             | 1,991.9    | 265.2                | 161.9                 | 103.23                  | 2.569             |                    |  |        |
| 8,800.0               | 6,559.7             | 8,982.7             | 6,715.8             | 65.9            | 67.6        | -127.69               | 862.1                             | 2,091.9    | 265.2                | 157.6                 | 107.59                  | 2.465             |                    |  |        |
| 8,900.0               | 6,559.2             | 9,082.7             | 6,715.5             | 68.6            | 70.4        | -127.71               | 862.1                             | 2,191.9    | 265.3                | 153.3                 | 111.97                  | 2.369             |                    |  |        |
| 9,000.0               | 6,558.8             | 9,182.7             | 6,715.1             | 71.4            | 73.1        | -127.73               | 862.1                             | 2,291.9    | 265.3                | 149.0                 | 116.35                  | 2.280             |                    |  |        |
| 9,100.0               | 6,558.3             | 9,282.7             | 6,714.8             | 74.1            | 75.8        | -127.74               | 862.1                             | 2,391.9    | 265.4                | 144.7                 | 120.75                  | 2.198             |                    |  |        |
| 9,200.0               | 6,557.9             | 9,382.7             | 6,714.5             | 76.8            | 78.5        | -127.76               | 862.1                             | 2,491.9    | 265.5                | 140.3                 | 125.14                  | 2.121             |                    |  |        |
| 9,300.0               | 6,557.5             | 9,482.7             | 6,714.2             | 79.6            | 81.2        | -127.78               | 862.1                             | 2,591.9    | 265.5                | 136.0                 | 129.55                  | 2.050             |                    |  |        |
| 9,400.0               | 6,557.0             | 9,582.7             | 6,713.8             | 82.3            | 84.0        | -127.80               | 862.1                             | 2,691.9    | 265.6                | 131.6                 | 133.95                  | 1.983             |                    |  |        |
| 9,500.0               | 6,556.6             | 9,682.7             | 6,713.5             | 85.1            | 86.7        | -127.82               | 862.1                             | 2,791.9    | 265.7                | 127.3                 | 138.36                  | 1.920             |                    |  |        |
| 9,600.0               | 6,556.2             | 9,782.7             | 6,713.2             | 87.8            | 89.5        | -127.83               | 862.1                             | 2,891.9    | 265.7                | 123.0                 | 142.78                  | 1.861             |                    |  |        |
| 9,700.0               | 6,555.7             | 9,882.7             | 6,712.8             | 90.6            | 92.2        | -127.85               | 862.1                             | 2,991.9    | 265.8                | 118.6                 | 147.19                  | 1.806             |                    |  |        |
| 9,800.0               | 6,555.3             | 9,982.7             | 6,712.5             | 93.3            | 95.0        | -127.87               | 862.1                             | 3,091.9    | 265.9                | 114.2                 | 151.61                  | 1.754             |                    |  |        |
| 9,900.0               | 6,554.9             | 10,082.7            | 6,712.2             | 96.1            | 97.7        | -127.89               | 862.1                             | 3,191.9    | 265.9                | 109.9                 | 156.03                  | 1.704             |                    |  |        |
| 10,000.0              | 6,554.4             | 10,182.7            | 6,711.8             | 98.9            | 100.5       | -127.90               | 862.1                             | 3,291.9    | 266.0                | 105.5                 | 160.46                  | 1.658             |                    |  |        |
| 10,100.0              | 6,554.0             | 10,282.7            | 6,711.5             | 101.6           | 103.2       | -127.92               | 862.1                             | 3,391.9    | 266.0                | 101.2                 | 164.88                  | 1.614             |                    |  |        |
| 10,200.0              | 6,553.5             | 10,382.7            | 6,711.2             | 104.4           | 106.0       | -127.94               | 862.1                             | 3,491.9    | 266.1                | 96.8                  | 169.31                  | 1.572             |                    |  |        |
| 10,300.0              | 6,553.1             | 10,482.7            | 6,710.8             | 107.2           | 108.8       | -127.96               | 862.1                             | 3,591.9    | 266.2                | 92.4                  | 173.73                  | 1.532             |                    |  |        |
| 10,400.0              | 6,552.7             | 10,582.7            | 6,710.5             | 110.0           | 111.5       | -127.98               | 862.1                             | 3,691.9    | 266.2                | 88.1                  | 178.16                  | 1.494 Level 3     |                    |  |        |
| 10,500.0              | 6,552.2             | 10,682.7            | 6,710.2             | 112.7           | 114.3       | -127.99               | 862.1                             | 3,791.9    | 266.3                | 83.7                  | 182.59                  | 1.458 Level 3     |                    |  |        |
| 10,600.0              | 6,551.8             | 10,782.7            | 6,709.8             | 115.5           | 117.1       | -128.01               | 862.1                             | 3,891.9    | 266.4                | 79.4                  | 187.02                  | 1.424 Level 3     |                    |  |        |
| 10,700.0              | 6,551.4             | 10,882.7            | 6,709.5             | 118.3           | 119.9       | -128.03               | 862.1                             | 3,991.9    | 266.4                | 75.0                  | 191.45                  | 1.392 Level 3     |                    |  |        |
| 10,800.0              | 6,550.9             | 10,982.7            | 6,709.2             | 121.1           | 122.6       | -128.05               | 862.0                             | 4,091.9    | 266.5                | 70.6                  | 195.88                  | 1.361 Level 3     |                    |  |        |
| 10,900.0              | 6,550.5             | 11,082.7            | 6,708.8             | 123.8           | 125.4       | -128.07               | 862.0                             | 4,191.9    | 266.6                | 66.3                  | 200.30                  | 1.331 Level 3     |                    |  |        |
| 11,000.0              | 6,550.1             | 11,182.7            | 6,708.5             | 126.6           | 128.2       | -128.08               | 862.0                             | 4,291.9    | 266.6                | 61.9                  | 204.73                  | 1.302 Level 3     |                    |  |        |
| 11,100.0              | 6,549.6             | 11,282.7            | 6,708.2             | 129.4           | 131.0       | -128.10               | 862.0                             | 4,391.9    | 266.7                | 57.5                  | 209.16                  | 1.275 Level 3     |                    |  |        |
| 11,200.0              | 6,549.2             | 11,382.7            | 6,707.9             | 132.2           | 133.8       | -128.12               | 862.0                             | 4,491.9    | 266.8                | 53.2                  | 213.59                  | 1.249 Level 2     |                    |  |        |
| 11,300.0              | 6,548.8             | 11,482.7            | 6,707.5             | 135.0           | 136.5       | -128.14               | 862.0                             | 4,591.9    | 266.8                | 48.8                  | 218.01                  | 1.224 Level 2     |                    |  |        |
| 11,400.0              | 6,548.3             | 11,582.7            | 6,707.2             | 137.8           | 139.3       | -128.15               | 862.0                             | 4,691.9    | 266.9                | 44.4                  | 222.44                  | 1.200 Level 2     |                    |  |        |
| 11,500.0              | 6,547.9             | 11,682.7            | 6,706.9             | 140.6           | 142.1       | -128.17               | 862.0                             | 4,791.9    | 266.9                | 40.1                  | 226.87                  | 1.177 Level 2     |                    |  |        |
| 11,600.0              | 6,547.4             | 11,782.7            | 6,706.5             | 143.4           | 144.9       | -128.19               | 862.0                             | 4,891.9    | 267.0                | 35.7                  | 231.29                  | 1.154 Level 2     |                    |  |        |
| 11,700.0              | 6,547.0             | 11,882.7            | 6,706.2             | 146.1           | 147.7       | -128.21               | 862.0                             | 4,991.9    | 267.1                | 31.4                  | 235.71                  | 1.133 Level 2     |                    |  |        |
| 11,800.0              | 6,546.6             | 11,982.7            | 6,705.9             | 148.9           | 150.5       | -128.22               | 862.0                             | 5,091.9    | 267.1                | 27.0                  | 240.14                  | 1.112 Level 2     |                    |  |        |

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

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extension (3-3-16)           | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design         |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-402 - Wellbore #1 - Plan #1 Extension (3-4-1) |         | 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 (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 |   |         |                    |  |        |
| 11,900.0              | 6,546.1             | 12,082.7            | 6,705.5             | 151.7           | 153.3       | -128.24               | 862.0                             | 5,191.9    | 267.2                | 22.6                  | 244.56                  | 1.093             | Level 2   |         |                    |  |        |
| 12,000.0              | 6,545.7             | 12,182.7            | 6,705.2             | 154.5           | 156.1       | -128.26               | 862.0                             | 5,291.9    | 267.3                | 18.3                  | 248.98                  | 1.073             | Level 2   |         |                    |  |        |
| 12,100.0              | 6,545.3             | 12,282.7            | 6,704.9             | 157.3           | 158.8       | -128.28               | 862.0                             | 5,391.9    | 267.3                | 13.9                  | 253.40                  | 1.055             | Level 2   |         |                    |  |        |
| 12,200.0              | 6,544.8             | 12,382.7            | 6,704.5             | 160.1           | 161.6       | -128.30               | 862.0                             | 5,491.9    | 267.4                | 9.6                   | 257.82                  | 1.037             | Level 2   |         |                    |  |        |
| 12,300.0              | 6,544.4             | 12,482.7            | 6,704.2             | 162.9           | 164.4       | -128.31               | 862.0                             | 5,591.9    | 267.5                | 5.2                   | 262.24                  | 1.020             | Level 2   |         |                    |  |        |
| 12,400.0              | 6,544.0             | 12,582.7            | 6,703.9             | 165.7           | 167.2       | -128.33               | 862.0                             | 5,691.9    | 267.5                | 0.9                   | 266.65                  | 1.003             | Level 2   |         |                    |  |        |
| 12,500.0              | 6,543.5             | 12,682.7            | 6,703.5             | 168.5           | 170.0       | -128.35               | 862.0                             | 5,791.9    | 267.6                | -3.5                  | 271.07                  | 0.987             | Level 1   |         |                    |  |        |
| 12,600.0              | 6,543.1             | 12,782.7            | 6,703.2             | 171.3           | 172.8       | -128.37               | 862.0                             | 5,891.9    | 267.7                | -7.8                  | 275.48                  | 0.972             | Level 1   |         |                    |  |        |
| 12,700.0              | 6,542.6             | 12,882.7            | 6,702.9             | 174.1           | 175.6       | -128.38               | 862.0                             | 5,991.9    | 267.7                | -12.2                 | 279.89                  | 0.957             | Level 1   |         |                    |  |        |
| 12,800.0              | 6,542.2             | 12,982.7            | 6,702.5             | 176.9           | 178.4       | -128.40               | 862.0                             | 6,091.9    | 267.8                | -16.5                 | 284.31                  | 0.942             | Level 1   |         |                    |  |        |
| 12,900.0              | 6,541.8             | 13,082.7            | 6,702.2             | 179.7           | 181.2       | -128.42               | 862.0                             | 6,191.9    | 267.9                | -20.9                 | 288.72                  | 0.928             | Level 1   |         |                    |  |        |
| 13,000.0              | 6,541.3             | 13,182.7            | 6,701.9             | 182.5           | 184.0       | -128.44               | 862.0                             | 6,291.9    | 267.9                | -25.2                 | 293.12                  | 0.914             | Level 1   |         |                    |  |        |
| 13,100.0              | 6,540.9             | 13,282.7            | 6,701.5             | 185.3           | 186.8       | -128.45               | 862.0                             | 6,391.9    | 268.0                | -29.6                 | 297.53                  | 0.901             | Level 1   |         |                    |  |        |
| 13,200.0              | 6,540.5             | 13,382.7            | 6,701.2             | 188.1           | 189.6       | -128.47               | 862.0                             | 6,491.9    | 268.0                | -33.9                 | 301.94                  | 0.888             | Level 1   |         |                    |  |        |
| 13,300.0              | 6,540.0             | 13,482.7            | 6,700.9             | 190.9           | 192.4       | -128.49               | 862.0                             | 6,591.9    | 268.1                | -38.2                 | 306.34                  | 0.875             | Level 1   |         |                    |  |        |
| 13,400.0              | 6,539.6             | 13,582.7            | 6,700.6             | 193.7           | 195.2       | -128.51               | 862.0                             | 6,691.9    | 268.2                | -42.6                 | 310.74                  | 0.863             | Level 1   |         |                    |  |        |
| 13,500.0              | 6,539.2             | 13,682.7            | 6,700.2             | 196.5           | 198.0       | -128.52               | 862.0                             | 6,791.9    | 268.2                | -46.9                 | 315.15                  | 0.851             | Level 1   |         |                    |  |        |
| 13,600.0              | 6,538.7             | 13,782.7            | 6,699.9             | 199.3           | 200.8       | -128.54               | 862.0                             | 6,891.9    | 268.3                | -51.2                 | 319.55                  | 0.840             | Level 1   |         |                    |  |        |
| 13,700.0              | 6,538.3             | 13,882.7            | 6,699.6             | 202.1           | 203.6       | -128.56               | 862.0                             | 6,991.9    | 268.4                | -55.6                 | 323.94                  | 0.828             | Level 1   |         |                    |  |        |
| 13,800.0              | 6,537.8             | 13,982.7            | 6,699.2             | 204.9           | 206.4       | -128.58               | 862.0                             | 7,091.8    | 268.4                | -59.9                 | 328.34                  | 0.818             | Level 1   |         |                    |  |        |
| 13,900.0              | 6,537.4             | 14,082.7            | 6,698.9             | 207.7           | 209.2       | -128.59               | 862.0                             | 7,191.8    | 268.5                | -64.2                 | 332.74                  | 0.807             | Level 1   |         |                    |  |        |
| 14,000.0              | 6,537.0             | 14,182.7            | 6,698.6             | 210.5           | 212.0       | -128.61               | 862.0                             | 7,291.8    | 268.6                | -68.6                 | 337.13                  | 0.797             | Level 1   |         |                    |  |        |
| 14,100.0              | 6,536.5             | 14,282.7            | 6,698.2             | 213.3           | 214.8       | -128.63               | 862.0                             | 7,391.8    | 268.6                | -72.9                 | 341.52                  | 0.787             | Level 1   |         |                    |  |        |
| 14,200.0              | 6,536.1             | 14,382.7            | 6,697.9             | 216.1           | 217.6       | -128.65               | 862.0                             | 7,491.8    | 268.7                | -77.2                 | 345.91                  | 0.777             | Level 1   |         |                    |  |        |
| 14,300.0              | 6,535.7             | 14,482.7            | 6,697.6             | 218.9           | 220.4       | -128.66               | 862.0                             | 7,591.8    | 268.8                | -81.5                 | 350.30                  | 0.767             | Level 1   |         |                    |  |        |
| 14,400.0              | 6,535.2             | 14,582.7            | 6,697.2             | 221.7           | 223.2       | -128.68               | 862.0                             | 7,691.8    | 268.8                | -85.9                 | 354.69                  | 0.758             | Level 1   |         |                    |  |        |
| 14,500.0              | 6,534.8             | 14,682.7            | 6,696.9             | 224.5           | 226.0       | -128.70               | 862.0                             | 7,791.8    | 268.9                | -90.2                 | 359.07                  | 0.749             | Level 1   |         |                    |  |        |
| 14,600.0              | 6,534.4             | 14,782.7            | 6,696.6             | 227.3           | 228.8       | -128.72               | 862.0                             | 7,891.8    | 269.0                | -94.5                 | 363.46                  | 0.740             | Level 1   |         |                    |  |        |
| 14,700.0              | 6,533.9             | 14,882.7            | 6,696.2             | 230.1           | 231.6       | -128.73               | 862.0                             | 7,991.8    | 269.0                | -98.8                 | 367.84                  | 0.731             | Level 1   |         |                    |  |        |
| 14,800.0              | 6,533.5             | 14,982.7            | 6,695.9             | 232.9           | 234.4       | -128.75               | 862.0                             | 8,091.8    | 269.1                | -103.1                | 372.22                  | 0.723             | Level 1   |         |                    |  |        |
| 14,900.0              | 6,533.0             | 15,082.7            | 6,695.6             | 235.7           | 237.2       | -128.77               | 862.0                             | 8,191.8    | 269.2                | -107.4                | 376.60                  | 0.715             | Level 1   |         |                    |  |        |
| 15,000.0              | 6,532.6             | 15,182.7            | 6,695.2             | 238.5           | 240.0       | -128.79               | 862.0                             | 8,291.8    | 269.2                | -111.8                | 380.97                  | 0.707             | Level 1   |         |                    |  |        |
| 15,100.0              | 6,532.2             | 15,282.7            | 6,694.9             | 241.3           | 242.8       | -128.80               | 862.0                             | 8,391.8    | 269.3                | -116.1                | 385.35                  | 0.699             | Level 1   |         |                    |  |        |
| 15,200.0              | 6,531.7             | 15,382.7            | 6,694.6             | 244.1           | 245.6       | -128.82               | 862.0                             | 8,491.8    | 269.3                | -120.4                | 389.72                  | 0.691             | Level 1   |         |                    |  |        |
| 15,300.0              | 6,531.3             | 15,482.7            | 6,694.3             | 246.9           | 248.4       | -128.84               | 862.0                             | 8,591.8    | 269.4                | -124.7                | 394.10                  | 0.684             | Level 1   |         |                    |  |        |
| 15,400.0              | 6,530.9             | 15,582.7            | 6,693.9             | 249.7           | 251.2       | -128.86               | 862.0                             | 8,691.8    | 269.5                | -129.0                | 398.47                  | 0.676             | Level 1   |         |                    |  |        |
| 15,500.0              | 6,530.4             | 15,682.7            | 6,693.6             | 252.5           | 254.0       | -128.87               | 862.0                             | 8,791.8    | 269.5                | -133.3                | 402.83                  | 0.669             | Level 1   |         |                    |  |        |
| 15,600.0              | 6,530.0             | 15,782.7            | 6,693.3             | 255.3           | 256.8       | -128.89               | 862.0                             | 8,891.8    | 269.6                | -137.6                | 407.20                  | 0.662             | Level 1   |         |                    |  |        |
| 15,700.0              | 6,529.6             | 15,882.7            | 6,692.9             | 258.1           | 259.6       | -128.91               | 862.0                             | 8,991.8    | 269.7                | -141.9                | 411.57                  | 0.655             | Level 1   |         |                    |  |        |
| 15,800.0              | 6,529.1             | 15,982.7            | 6,692.6             | 260.9           | 262.4       | -128.93               | 862.0                             | 9,091.8    | 269.7                | -146.2                | 415.93                  | 0.649             | Level 1   |         |                    |  |        |
| 15,900.0              | 6,528.7             | 16,082.7            | 6,692.3             | 263.7           | 265.2       | -128.94               | 862.0                             | 9,191.8    | 269.8                | -150.5                | 420.29                  | 0.642             | Level 1   |         |                    |  |        |
| 16,000.0              | 6,528.2             | 16,182.7            | 6,691.9             | 266.5           | 268.0       | -128.96               | 862.0                             | 9,291.8    | 269.9                | -154.8                | 424.65                  | 0.636             | Level 1   |         |                    |  |        |
| 16,100.0              | 6,527.8             | 16,282.7            | 6,691.6             | 269.3           | 270.8       | -128.98               | 862.0                             | 9,391.8    | 269.9                | -159.1                | 429.01                  | 0.629             | Level 1   |         |                    |  |        |
| 16,200.0              | 6,527.4             | 16,382.7            | 6,691.3             | 272.1           | 273.6       | -129.00               | 862.0                             | 9,491.8    | 270.0                | -163.4                | 433.37                  | 0.623             | Level 1   |         |                    |  |        |
| 16,247.4              | 6,527.2             | 16,430.1            | 6,691.1             | 273.4           | 274.9       | -129.00               | 862.0                             | 9,539.2    | 270.0                | -165.4                | 435.43                  | 0.620             | Level 1   |         |                    |  |        |
| 16,284.8              | 6,527.0             | 16,464.1            | 6,691.0             | 274.5           | 275.9       | -129.01               | 862.0                             | 9,573.2    | 270.1                | -166.9                | 436.99                  | 0.618             | Level 1, ES, SF   |         |                    |  |        |

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-2 (Exist.) - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | 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 |                    |        |
| 7,300.0   | 6,566.2             | 6,536.2             | 6,536.2             | 27.3            | 130.7       | 90.80                 | 355.6                             | 1,545.3    | 999.0                | 841.2                 | 157.81                  | 6.330             |                    |        |
| 7,400.0   | 6,565.8             | 6,535.8             | 6,535.8             | 29.6            | 130.7       | 90.72                 | 355.6                             | 1,545.3    | 904.0                | 743.9                 | 160.08                  | 5.647             |                    |        |
| 7,500.0   | 6,565.3             | 6,535.3             | 6,535.3             | 32.0            | 130.7       | 90.64                 | 355.6                             | 1,545.3    | 810.2                | 647.8                 | 162.43                  | 4.988             |                    |        |
| 7,600.0   | 6,564.9             | 6,534.9             | 6,534.9             | 34.4            | 130.7       | 90.55                 | 355.6                             | 1,545.3    | 718.1                | 553.2                 | 164.85                  | 4.356             |                    |        |
| 7,700.0   | 6,564.5             | 6,534.5             | 6,534.5             | 36.9            | 130.7       | 90.47                 | 355.6                             | 1,545.3    | 628.4                | 461.0                 | 167.33                  | 3.755             |                    |        |
| 7,800.0   | 6,564.0             | 6,534.0             | 6,534.0             | 39.4            | 130.7       | 90.38                 | 355.6                             | 1,545.3    | 542.3                | 372.4                 | 169.85                  | 3.193             |                    |        |
| 7,900.0   | 6,563.6             | 6,533.6             | 6,533.6             | 42.0            | 130.7       | 90.30                 | 355.6                             | 1,545.3    | 461.8                | 289.4                 | 172.40                  | 2.679             |                    |        |
| 8,000.0   | 6,563.1             | 6,533.1             | 6,533.1             | 44.6            | 130.7       | 90.21                 | 355.6                             | 1,545.3    | 390.5                | 215.5                 | 174.98                  | 2.231             |                    |        |
| 8,100.0   | 6,562.7             | 6,532.7             | 6,532.7             | 47.2            | 130.7       | 90.13                 | 355.6                             | 1,545.3    | 334.2                | 156.6                 | 177.59                  | 1.882             |                    |        |
| 8,200.0   | 6,562.3             | 6,532.3             | 6,532.3             | 49.8            | 130.6       | 90.05                 | 355.6                             | 1,545.3    | 301.5                | 121.2                 | 180.22                  | 1.673             |                    |        |
| 8,254.0   | 6,562.0             | 6,532.0             | 6,532.0             | 51.2            | 130.6       | 90.00                 | 355.6                             | 1,545.3    | 296.6                | 114.9                 | 181.65                  | 1.633 CC, ES, SF  |                    |        |
| 8,300.0   | 6,561.8             | 6,531.8             | 6,531.8             | 52.5            | 130.6       | 89.96                 | 355.6                             | 1,545.3    | 300.1                | 117.3                 | 182.87                  | 1.641             |                    |        |
| 8,400.0   | 6,561.4             | 6,531.4             | 6,531.4             | 55.1            | 130.6       | 89.88                 | 355.6                             | 1,545.3    | 330.6                | 145.0                 | 185.53                  | 1.782             |                    |        |
| 8,500.0   | 6,561.0             | 6,531.0             | 6,531.0             | 57.8            | 130.6       | 89.79                 | 355.6                             | 1,545.3    | 385.3                | 197.1                 | 188.20                  | 2.047             |                    |        |
| 8,600.0   | 6,560.5             | 6,530.5             | 6,530.5             | 60.5            | 130.6       | 89.71                 | 355.6                             | 1,545.3    | 455.7                | 264.8                 | 190.89                  | 2.387             |                    |        |
| 8,700.0   | 6,560.1             | 6,530.1             | 6,530.1             | 63.2            | 130.6       | 89.62                 | 355.6                             | 1,545.3    | 535.6                | 342.0                 | 193.58                  | 2.767             |                    |        |
| 8,800.0   | 6,559.7             | 6,529.7             | 6,529.7             | 65.9            | 130.6       | 89.54                 | 355.6                             | 1,545.3    | 621.4                | 425.1                 | 196.29                  | 3.166             |                    |        |
| 8,900.0   | 6,559.2             | 6,529.2             | 6,529.2             | 68.6            | 130.6       | 89.46                 | 355.6                             | 1,545.3    | 710.8                | 511.8                 | 199.00                  | 3.572             |                    |        |
| 9,000.0   | 6,558.8             | 6,528.8             | 6,528.8             | 71.4            | 130.6       | 89.37                 | 355.6                             | 1,545.3    | 802.8                | 601.1                 | 201.71                  | 3.980             |                    |        |
| 9,100.0   | 6,558.3             | 6,528.3             | 6,528.3             | 74.1            | 130.6       | 89.29                 | 355.6                             | 1,545.3    | 896.5                | 692.1                 | 204.43                  | 4.385             |                    |        |
| 9,200.0   | 6,557.9             | 6,527.9             | 6,527.9             | 76.8            | 130.6       | 89.20                 | 355.6                             | 1,545.3    | 991.4                | 784.3                 | 207.16                  | 4.786             |                    |        |

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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         | 32.25                 | 376.7                             | 237.7      | 446.3                |                       |                         |                    |         |
| 100.0   | 100.0               | 72.0                | 72.0                | 0.1             | 1.4         | 32.25                 | 376.7                             | 237.7      | 445.4                | 443.9                 | 1.55                    | 286.883            |         |
| 200.0   | 200.0               | 172.0               | 172.0               | 0.3             | 3.4         | 32.25                 | 376.7                             | 237.7      | 445.4                | 441.6                 | 3.78                    | 117.916            |         |
| 300.0   | 300.0               | 272.0               | 272.0               | 0.6             | 5.4         | 32.25                 | 376.7                             | 237.7      | 445.4                | 439.4                 | 6.00                    | 74.209             |         |
| 400.0   | 400.0               | 372.0               | 372.0               | 0.8             | 7.4         | 32.25                 | 376.7                             | 237.7      | 445.4                | 437.2                 | 8.23                    | 54.141             |         |
| 500.0   | 500.0               | 472.0               | 472.0               | 1.0             | 9.4         | 32.25                 | 376.7                             | 237.7      | 445.4                | 435.0                 | 10.45                   | 42.616             |         |
| 600.0   | 600.0               | 572.0               | 572.0               | 1.2             | 11.4        | 32.25                 | 376.7                             | 237.7      | 445.4                | 432.7                 | 12.68                   | 35.137             |         |
| 700.0   | 700.0               | 672.0               | 672.0               | 1.5             | 13.4        | 32.25                 | 376.7                             | 237.7      | 445.4                | 430.5                 | 14.90                   | 29.891             |         |
| 800.0   | 800.0               | 772.0               | 772.0               | 1.7             | 15.4        | 32.25                 | 376.7                             | 237.7      | 445.4                | 428.3                 | 17.13                   | 26.008             |         |
| 900.0   | 900.0               | 872.0               | 872.0               | 1.9             | 17.4        | 32.25                 | 376.7                             | 237.7      | 445.4                | 426.1                 | 19.35                   | 23.018             |         |
| 1,000.0   | 1,000.0             | 972.0               | 972.0               | 2.1             | 19.4        | 32.25                 | 376.7                             | 237.7      | 445.4                | 423.8                 | 21.58                   | 20.644             |         |
| 1,100.0   | 1,100.0             | 1,072.0             | 1,072.0             | 2.4             | 21.4        | 63.93                 | 376.7                             | 237.7      | 444.8                | 421.0                 | 23.80                   | 18.693             |         |
| 1,200.0   | 1,199.9             | 1,171.9             | 1,171.9             | 2.6             | 23.4        | 64.41                 | 376.7                             | 237.7      | 443.1                | 417.1                 | 26.01                   | 17.035             |         |
| 1,300.0   | 1,299.7             | 1,271.7             | 1,271.7             | 2.8             | 25.4        | 65.21                 | 376.7                             | 237.7      | 440.3                | 412.1                 | 28.23                   | 15.599             |         |
| 1,400.0   | 1,399.3             | 1,371.3             | 1,371.3             | 3.0             | 27.4        | 66.35                 | 376.7                             | 237.7      | 436.6                | 406.1                 | 30.44                   | 14.340             |         |
| 1,500.0   | 1,498.6             | 1,470.6             | 1,470.6             | 3.3             | 29.4        | 67.83                 | 376.7                             | 237.7      | 432.0                | 399.3                 | 32.67                   | 13.223             |         |
| 1,600.0   | 1,597.5             | 1,569.5             | 1,569.5             | 3.6             | 31.4        | 69.68                 | 376.7                             | 237.7      | 426.7                | 391.8                 | 34.90                   | 12.226             |         |
| 1,700.0   | 1,696.1             | 1,668.1             | 1,668.1             | 3.9             | 33.4        | 71.89                 | 376.7                             | 237.7      | 421.1                | 383.9                 | 37.16                   | 11.331             |         |
| 1,729.0   | 1,724.6             | 1,696.6             | 1,696.6             | 4.0             | 33.9        | 72.60                 | 376.7                             | 237.7      | 419.4                | 381.6                 | 37.82                   | 11.089             |         |
| 1,800.0   | 1,794.3             | 1,766.3             | 1,766.3             | 4.2             | 35.3        | 74.35                 | 376.7                             | 237.7      | 415.5                | 376.0                 | 39.46                   | 10.531             |         |
| 1,900.0   | 1,892.5             | 1,864.5             | 1,864.5             | 4.5             | 37.3        | 76.85                 | 376.7                             | 237.7      | 410.7                | 368.9                 | 41.77                   | 9.832              |         |
| 2,000.0   | 1,990.7             | 1,962.7             | 1,962.7             | 4.9             | 39.3        | 79.41                 | 376.7                             | 237.7      | 406.7                | 362.6                 | 44.10                   | 9.222              |         |
| 2,100.0   | 2,088.8             | 2,060.8             | 2,060.8             | 5.2             | 41.2        | 82.01                 | 376.7                             | 237.7      | 403.6                | 357.2                 | 46.44                   | 8.690              |         |
| 2,200.0   | 2,187.0             | 2,159.0             | 2,159.0             | 5.6             | 43.2        | 84.64                 | 376.7                             | 237.7      | 401.4                | 352.6                 | 48.79                   | 8.227              |         |
| 2,300.0   | 2,285.2             | 2,257.2             | 2,257.2             | 6.0             | 45.1        | 87.30                 | 376.7                             | 237.7      | 400.0                | 348.9                 | 51.14                   | 7.822              |         |
| 2,400.0   | 2,383.4             | 2,355.4             | 2,355.4             | 6.4             | 47.1        | 89.97                 | 376.7                             | 237.7      | 399.5                | 346.1                 | 53.48                   | 7.470              |         |
| 2,401.1   | 2,384.5             | 2,356.5             | 2,356.5             | 6.4             | 47.1        | 90.00                 | 376.7                             | 237.7      | 399.5                | 346.0                 | 53.51                   | 7.467              |         |
| 2,500.0   | 2,481.6             | 2,453.6             | 2,453.6             | 6.8             | 49.1        | 92.64                 | 376.7                             | 237.7      | 400.0                | 344.2                 | 55.83                   | 7.165              |         |
| 2,600.0   | 2,579.8             | 2,551.8             | 2,551.8             | 7.2             | 51.0        | 95.30                 | 376.7                             | 237.7      | 401.3                | 343.2                 | 58.16                   | 6.900              |         |
| 2,700.0   | 2,678.0             | 2,650.0             | 2,650.0             | 7.6             | 53.0        | 97.93                 | 376.7                             | 237.7      | 403.5                | 343.1                 | 60.49                   | 6.671              |         |
| 2,800.0   | 2,776.1             | 2,748.1             | 2,748.1             | 8.0             | 55.0        | 100.53                | 376.7                             | 237.7      | 406.6                | 343.8                 | 62.81                   | 6.474              |         |
| 2,900.0   | 2,874.3             | 2,846.3             | 2,846.3             | 8.4             | 56.9        | 103.09                | 376.7                             | 237.7      | 410.6                | 345.5                 | 65.12                   | 6.306              |         |
| 3,000.0   | 2,972.5             | 2,944.5             | 2,944.5             | 8.8             | 58.9        | 105.60                | 376.7                             | 237.7      | 415.4                | 348.0                 | 67.41                   | 6.162              |         |
| 3,100.0   | 3,070.7             | 3,042.7             | 3,042.7             | 9.2             | 60.9        | 108.04                | 376.7                             | 237.7      | 421.0                | 351.3                 | 69.69                   | 6.041              |         |
| 3,200.0   | 3,168.9             | 3,140.9             | 3,140.9             | 9.6             | 62.8        | 110.42                | 376.7                             | 237.7      | 427.3                | 355.4                 | 71.96                   | 5.939              |         |
| 3,300.0   | 3,267.1             | 3,239.1             | 3,239.1             | 10.0            | 64.8        | 112.73                | 376.7                             | 237.7      | 434.4                | 360.2                 | 74.21                   | 5.854              |         |
| 3,400.0   | 3,365.2             | 3,337.2             | 3,337.2             | 10.4            | 66.7        | 114.97                | 376.7                             | 237.7      | 442.2                | 365.7                 | 76.45                   | 5.784              |         |
| 3,500.0   | 3,463.4             | 3,435.4             | 3,435.4             | 10.8            | 68.7        | 117.12                | 376.7                             | 237.7      | 450.6                | 372.0                 | 78.68                   | 5.728              |         |
| 3,600.0   | 3,561.6             | 3,533.6             | 3,533.6             | 11.2            | 70.7        | 119.20                | 376.7                             | 237.7      | 459.7                | 378.8                 | 80.90                   | 5.683              |         |
| 3,700.0   | 3,659.8             | 3,631.8             | 3,631.8             | 11.6            | 72.6        | 121.19                | 376.7                             | 237.7      | 469.4                | 386.3                 | 83.10                   | 5.648              |         |
| 3,800.0   | 3,758.0             | 3,730.0             | 3,730.0             | 12.0            | 74.6        | 123.11                | 376.7                             | 237.7      | 479.6                | 394.3                 | 85.30                   | 5.623              |         |
| 3,900.0   | 3,856.2             | 3,828.2             | 3,828.2             | 12.4            | 76.6        | 124.94                | 376.7                             | 237.7      | 490.4                | 402.9                 | 87.49                   | 5.605              |         |
| 4,000.0   | 3,954.4             | 3,926.4             | 3,926.4             | 12.8            | 78.5        | 126.70                | 376.7                             | 237.7      | 501.6                | 411.9                 | 89.67                   | 5.594              |         |
| 4,100.0   | 4,052.5             | 4,024.5             | 4,024.5             | 13.3            | 80.5        | 128.38                | 376.7                             | 237.7      | 513.3                | 421.5                 | 91.84                   | 5.589              |         |
| 4,200.0   | 4,150.7             | 4,122.7             | 4,122.7             | 13.7            | 82.5        | 129.98                | 376.7                             | 237.7      | 525.4                | 431.4                 | 94.01                   | 5.589              |         |
| 4,300.0   | 4,248.9             | 4,220.9             | 4,220.9             | 14.1            | 84.4        | 131.51                | 376.7                             | 237.7      | 537.9                | 441.8                 | 96.18                   | 5.593              |         |
| 4,400.0   | 4,347.1             | 4,319.1             | 4,319.1             | 14.5            | 86.4        | 132.98                | 376.7                             | 237.7      | 550.8                | 452.5                 | 98.33                   | 5.601              |         |
| 4,500.0   | 4,445.3             | 4,417.3             | 4,417.3             | 14.9            | 88.3        | 134.37                | 376.7                             | 237.7      | 564.0                | 463.6                 | 100.49                  | 5.613              |         |
| 4,600.0   | 4,543.5             | 4,515.5             | 4,515.5             | 15.3            | 90.3        | 135.71                | 376.7                             | 237.7      | 577.6                | 474.9                 | 102.64                  | 5.627              |         |
| 4,700.0   | 4,641.6             | 4,613.6             | 4,613.6             | 15.7            | 92.3        | 136.98                | 376.7                             | 237.7      | 591.4                | 486.6                 | 104.79                  | 5.644              |         |
| 4,800.0   | 4,739.8             | 4,711.8             | 4,711.8             | 16.2            | 94.2        | 138.19                | 376.7                             | 237.7      | 605.6                | 498.6                 | 106.94                  | 5.663              |         |

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



|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 |                    |        |
| 4,900.0   | 4,838.0             | 4,810.0             | 4,810.0             | 16.6            | 96.2        | 139.35                | 376.7                             | 237.7      | 619.9                | 510.8                 | 109.09                  | 5.683             |                    |        |
| 5,000.0   | 4,936.2             | 4,908.2             | 4,908.2             | 17.0            | 98.2        | 140.46                | 376.7                             | 237.7      | 634.6                | 523.3                 | 111.23                  | 5.705             |                    |        |
| 5,100.0   | 5,034.4             | 5,006.4             | 5,006.4             | 17.4            | 100.1       | 141.52                | 376.7                             | 237.7      | 649.4                | 536.0                 | 113.38                  | 5.728             |                    |        |
| 5,122.6   | 5,056.6             | 5,028.6             | 5,028.6             | 17.5            | 100.6       | 141.75                | 376.7                             | 237.7      | 652.8                | 538.9                 | 113.86                  | 5.733             |                    |        |
| 5,200.0   | 5,132.8             | 5,104.8             | 5,104.8             | 17.8            | 102.1       | 142.61                | 376.7                             | 237.7      | 663.6                | 547.8                 | 115.80                  | 5.731             |                    |        |
| 5,300.0   | 5,231.7             | 5,203.7             | 5,203.7             | 18.1            | 104.1       | 143.50                | 376.7                             | 237.7      | 675.3                | 557.1                 | 118.23                  | 5.712             |                    |        |
| 5,400.0   | 5,331.1             | 5,303.1             | 5,303.1             | 18.3            | 106.1       | 144.16                | 376.7                             | 237.7      | 684.3                | 563.7                 | 120.61                  | 5.674             |                    |        |
| 5,500.0   | 5,430.8             | 5,402.8             | 5,402.8             | 18.5            | 108.1       | 144.60                | 376.7                             | 237.7      | 690.6                | 567.6                 | 122.92                  | 5.618             |                    |        |
| 5,600.0   | 5,530.7             | 5,502.7             | 5,502.7             | 18.7            | 110.1       | 144.84                | 376.7                             | 237.7      | 694.0                | 568.8                 | 125.15                  | 5.545             |                    |        |
| 5,669.3   | 5,600.0             | 5,572.0             | 5,572.0             | 18.7            | 111.4       | 113.37                | 376.7                             | 237.7      | 694.6                | 566.0                 | 128.67                  | 5.399             |                    |        |
| 5,700.0   | 5,630.7             | 5,602.7             | 5,602.7             | 18.8            | 112.1       | 113.37                | 376.7                             | 237.7      | 694.6                | 565.3                 | 129.33                  | 5.371             |                    |        |
| 5,800.0   | 5,730.7             | 5,702.7             | 5,702.7             | 18.9            | 114.1       | 113.37                | 376.7                             | 237.7      | 694.6                | 563.2                 | 131.49                  | 5.283             |                    |        |
| 5,872.6   | 5,803.2             | 5,775.2             | 5,775.2             | 19.0            | 115.5       | 113.37                | 376.7                             | 237.7      | 694.6                | 561.6                 | 133.05                  | 5.221             |                    |        |
| 5,900.0   | 5,830.7             | 5,802.7             | 5,802.7             | 19.1            | 116.1       | 23.40                 | 376.7                             | 237.7      | 694.2                | 562.7                 | 131.52                  | 5.278             |                    |        |
| 5,950.0   | 5,880.5             | 5,852.5             | 5,852.5             | 19.1            | 117.1       | 23.60                 | 376.7                             | 237.7      | 691.1                | 559.1                 | 131.99                  | 5.236             |                    |        |
| 6,000.0   | 5,930.1             | 5,902.1             | 5,902.1             | 19.1            | 118.0       | 24.01                 | 376.7                             | 237.7      | 684.9                | 553.0                 | 131.96                  | 5.190             |                    |        |
| 6,050.0   | 5,979.1             | 5,951.1             | 5,951.1             | 19.2            | 119.0       | 24.64                 | 376.7                             | 237.7      | 675.9                | 544.4                 | 131.44                  | 5.142             |                    |        |
| 6,100.0   | 6,027.3             | 5,999.3             | 5,999.3             | 19.2            | 120.0       | 25.50                 | 376.7                             | 237.7      | 663.9                | 533.5                 | 130.45                  | 5.089             |                    |        |
| 6,150.0   | 6,074.6             | 6,046.6             | 6,046.6             | 19.1            | 120.9       | 26.63                 | 376.7                             | 237.7      | 649.2                | 520.2                 | 129.06                  | 5.030             |                    |        |
| 6,200.0   | 6,120.7             | 6,092.7             | 6,092.7             | 19.1            | 121.9       | 28.05                 | 376.7                             | 237.7      | 631.8                | 504.5                 | 127.33                  | 4.962             |                    |        |
| 6,250.0   | 6,165.5             | 6,137.5             | 6,137.5             | 19.1            | 122.7       | 29.80                 | 376.7                             | 237.7      | 611.9                | 486.5                 | 125.39                  | 4.880             |                    |        |
| 6,300.0   | 6,208.7             | 6,180.7             | 6,180.7             | 19.0            | 123.6       | 31.95                 | 376.7                             | 237.7      | 589.5                | 466.1                 | 123.43                  | 4.776             |                    |        |
| 6,350.0   | 6,250.2             | 6,222.2             | 6,222.2             | 19.0            | 124.4       | 34.55                 | 376.7                             | 237.7      | 565.0                | 443.3                 | 121.68                  | 4.643             |                    |        |
| 6,400.0   | 6,289.7             | 6,261.7             | 6,261.7             | 18.9            | 125.2       | 37.68                 | 376.7                             | 237.7      | 538.5                | 418.1                 | 120.46                  | 4.471             |                    |        |
| 6,450.0   | 6,327.2             | 6,299.2             | 6,299.2             | 18.9            | 126.0       | 41.39                 | 376.7                             | 237.7      | 510.4                | 390.3                 | 120.14                  | 4.249             |                    |        |
| 6,500.0   | 6,362.5             | 6,334.5             | 6,334.5             | 18.8            | 126.7       | 45.73                 | 376.7                             | 237.7      | 480.9                | 359.9                 | 121.07                  | 3.972             |                    |        |
| 6,550.0   | 6,395.3             | 6,367.3             | 6,367.3             | 18.7            | 127.3       | 50.73                 | 376.7                             | 237.7      | 450.6                | 327.1                 | 123.48                  | 3.649             |                    |        |
| 6,600.0   | 6,425.6             | 6,397.6             | 6,397.6             | 18.7            | 128.0       | 56.31                 | 376.7                             | 237.7      | 419.8                | 292.5                 | 127.31                  | 3.298             |                    |        |
| 6,650.0   | 6,453.3             | 6,425.3             | 6,425.3             | 18.6            | 128.5       | 62.32                 | 376.7                             | 237.7      | 389.3                | 257.2                 | 132.12                  | 2.947             |                    |        |
| 6,700.0   | 6,478.1             | 6,450.1             | 6,450.1             | 18.6            | 129.0       | 68.49                 | 376.7                             | 237.7      | 360.0                | 222.8                 | 137.21                  | 2.624             |                    |        |
| 6,750.0   | 6,500.1             | 6,472.1             | 6,472.1             | 18.5            | 129.4       | 74.47                 | 376.7                             | 237.7      | 332.9                | 191.1                 | 141.80                  | 2.347             |                    |        |
| 6,800.0   | 6,519.1             | 6,491.1             | 6,491.1             | 18.5            | 129.8       | 79.89                 | 376.7                             | 237.7      | 309.3                | 163.9                 | 145.41                  | 2.127             |                    |        |
| 6,850.0   | 6,535.0             | 6,507.0             | 6,507.0             | 18.6            | 130.1       | 84.45                 | 376.7                             | 237.7      | 290.8                | 142.9                 | 147.92                  | 1.966             |                    |        |
| 6,900.0   | 6,547.8             | 6,519.8             | 6,519.8             | 19.4            | 130.4       | 87.91                 | 376.7                             | 237.7      | 279.1                | 129.6                 | 149.58                  | 1.866             |                    |        |
| 6,945.7   | 6,556.7             | 6,528.7             | 6,528.7             | 20.1            | 130.6       | 90.00                 | 376.7                             | 237.7      | 275.5                | 124.8                 | 150.66                  | 1.829 CC          |                    |        |
| 6,950.0   | 6,557.4             | 6,529.4             | 6,529.4             | 20.2            | 130.6       | 90.14                 | 376.7                             | 237.7      | 275.5                | 124.8                 | 150.74                  | 1.828 ES, SF      |                    |        |
| 7,000.0   | 6,563.7             | 6,535.7             | 6,535.7             | 21.1            | 130.7       | 91.06                 | 376.7                             | 237.7      | 280.7                | 129.0                 | 151.74                  | 1.850             |                    |        |
| 7,050.0   | 6,566.9             | 6,538.9             | 6,538.9             | 22.1            | 130.8       | 90.64                 | 376.7                             | 237.7      | 294.4                | 141.7                 | 152.71                  | 1.928             |                    |        |
| 7,075.9   | 6,567.2             | 6,539.2             | 6,539.2             | 22.6            | 130.8       | 89.88                 | 376.7                             | 237.7      | 304.5                | 151.3                 | 153.19                  | 1.988             |                    |        |
| 7,100.0   | 6,567.1             | 6,539.1             | 6,539.1             | 23.0            | 130.8       | 89.86                 | 376.7                             | 237.7      | 315.5                | 161.8                 | 153.65                  | 2.053             |                    |        |
| 7,200.0   | 6,566.6             | 6,538.6             | 6,538.6             | 25.1            | 130.8       | 89.77                 | 376.7                             | 237.7      | 374.5                | 218.8                 | 155.66                  | 2.406             |                    |        |
| 7,300.0   | 6,566.2             | 6,538.2             | 6,538.2             | 27.3            | 130.8       | 89.68                 | 376.7                             | 237.7      | 448.3                | 290.5                 | 157.82                  | 2.841             |                    |        |
| 7,400.0   | 6,565.8             | 6,537.8             | 6,537.8             | 29.6            | 130.8       | 89.59                 | 376.7                             | 237.7      | 530.8                | 370.7                 | 160.08                  | 3.316             |                    |        |
| 7,500.0   | 6,565.3             | 6,537.3             | 6,537.3             | 32.0            | 130.7       | 89.50                 | 376.7                             | 237.7      | 618.4                | 456.0                 | 162.43                  | 3.807             |                    |        |
| 7,600.0   | 6,564.9             | 6,536.9             | 6,536.9             | 34.4            | 130.7       | 89.41                 | 376.7                             | 237.7      | 709.4                | 544.5                 | 164.85                  | 4.303             |                    |        |
| 7,700.0   | 6,564.5             | 6,536.5             | 6,536.5             | 36.9            | 130.7       | 89.32                 | 376.7                             | 237.7      | 802.4                | 635.1                 | 167.32                  | 4.796             |                    |        |
| 7,800.0   | 6,564.0             | 6,536.0             | 6,536.0             | 39.4            | 130.7       | 89.23                 | 376.7                             | 237.7      | 897.0                | 727.2                 | 169.83                  | 5.282             |                    |        |
| 7,900.0   | 6,563.6             | 6,535.6             | 6,535.6             | 42.0            | 130.7       | 89.13                 | 376.7                             | 237.7      | 992.7                | 820.3                 | 172.38                  | 5.758             |                    |        |



|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 |                     |        |
| 8,700.0  | 6,560.1             | 6,526.1             | 6,526.1             | 63.2            | 130.5       | 90.82                 | 383.1                             | 2,873.0    | 921.8                | 728.3                 | 193.53                  | 4.763             |                     |        |
| 8,800.0  | 6,559.7             | 6,525.7             | 6,525.7             | 65.9            | 130.5       | 90.73                 | 383.1                             | 2,873.0    | 826.7                | 630.5                 | 196.23                  | 4.213             |                     |        |
| 8,900.0  | 6,559.2             | 6,525.2             | 6,525.2             | 68.6            | 130.5       | 90.63                 | 383.1                             | 2,873.0    | 732.9                | 533.9                 | 198.95                  | 3.684             |                     |        |
| 9,000.0  | 6,558.8             | 6,524.8             | 6,524.8             | 71.4            | 130.5       | 90.54                 | 383.1                             | 2,873.0    | 640.9                | 439.3                 | 201.67                  | 3.178             |                     |        |
| 9,100.0  | 6,558.3             | 6,524.3             | 6,524.3             | 74.1            | 130.5       | 90.45                 | 383.1                             | 2,873.0    | 551.8                | 347.4                 | 204.40                  | 2.699             |                     |        |
| 9,200.0  | 6,557.9             | 6,523.9             | 6,523.9             | 76.8            | 130.5       | 90.35                 | 383.1                             | 2,873.0    | 467.0                | 259.9                 | 207.13                  | 2.255             |                     |        |
| 9,300.0  | 6,557.5             | 6,523.5             | 6,523.5             | 79.6            | 130.5       | 90.26                 | 383.1                             | 2,873.0    | 389.6                | 179.7                 | 209.87                  | 1.856             |                     |        |
| 9,400.0  | 6,557.0             | 6,523.0             | 6,523.0             | 82.3            | 130.5       | 90.17                 | 383.1                             | 2,873.0    | 324.7                | 112.1                 | 212.61                  | 1.527             |                     |        |
| 9,500.0  | 6,556.6             | 6,522.6             | 6,522.6             | 85.1            | 130.5       | 90.08                 | 383.1                             | 2,873.0    | 281.3                | 65.9                  | 215.35                  | 1.306             | Level 3             |        |
| 9,581.7  | 6,556.2             | 6,522.2             | 6,522.2             | 87.3            | 130.4       | 90.00                 | 383.1                             | 2,873.0    | 269.1                | 51.5                  | 217.60                  | 1.237             | Level 2, CC, ES, SF |        |
| 9,600.0  | 6,556.2             | 6,522.2             | 6,522.2             | 87.8            | 130.4       | 89.98                 | 383.1                             | 2,873.0    | 269.8                | 51.7                  | 218.10                  | 1.237             | Level 2             |        |
| 9,700.0  | 6,555.7             | 6,521.7             | 6,521.7             | 90.6            | 130.4       | 89.89                 | 383.1                             | 2,873.0    | 294.0                | 73.1                  | 220.85                  | 1.331             | Level 3             |        |
| 9,800.0  | 6,555.3             | 6,521.3             | 6,521.3             | 93.3            | 130.4       | 89.80                 | 383.1                             | 2,873.0    | 346.5                | 122.9                 | 223.60                  | 1.550             |                     |        |
| 9,900.0  | 6,554.9             | 6,520.9             | 6,520.9             | 96.1            | 130.4       | 89.70                 | 383.1                             | 2,873.0    | 416.8                | 190.5                 | 226.35                  | 1.842             |                     |        |
| 10,000.0   | 6,554.4             | 6,520.4             | 6,520.4             | 98.9            | 130.4       | 89.61                 | 383.1                             | 2,873.0    | 497.4                | 268.3                 | 229.11                  | 2.171             |                     |        |
| 10,100.0   | 6,554.0             | 6,520.0             | 6,520.0             | 101.6           | 130.4       | 89.52                 | 383.1                             | 2,873.0    | 584.0                | 352.1                 | 231.87                  | 2.519             |                     |        |
| 10,200.0   | 6,553.5             | 6,519.5             | 6,519.5             | 104.4           | 130.4       | 89.43                 | 383.1                             | 2,873.0    | 674.3                | 439.7                 | 234.63                  | 2.874             |                     |        |
| 10,300.0   | 6,553.1             | 6,519.1             | 6,519.1             | 107.2           | 130.4       | 89.33                 | 383.1                             | 2,873.0    | 767.1                | 529.7                 | 237.39                  | 3.231             |                     |        |
| 10,400.0   | 6,552.7             | 6,518.7             | 6,518.7             | 110.0           | 130.4       | 89.24                 | 383.1                             | 2,873.0    | 861.4                | 621.3                 | 240.15                  | 3.587             |                     |        |
| 10,500.0   | 6,552.2             | 6,518.2             | 6,518.2             | 112.7           | 130.4       | 89.15                 | 383.1                             | 2,873.0    | 956.9                | 714.0                 | 242.91                  | 3.939             |                     |        |

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 (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 |                    |        |
| 9,900.0  | 6,554.9             | 6,580.9             | 6,579.9             | 96.1            | 13.3        | 102.03                | 342.0                             | 4,115.4    | 976.7                | 869.4                 | 107.31                  | 9.102             |                    |        |
| 10,000.0   | 6,554.4             | 6,573.8             | 6,572.9             | 98.9            | 13.2        | 100.78                | 342.0                             | 4,115.9    | 882.7                | 772.3                 | 110.43                  | 7.994             |                    |        |
| 10,100.0   | 6,554.0             | 6,566.7             | 6,565.8             | 101.6           | 13.2        | 99.51                 | 342.0                             | 4,116.4    | 790.1                | 676.6                 | 113.51                  | 6.960             |                    |        |
| 10,200.0   | 6,553.5             | 6,559.6             | 6,558.7             | 104.4           | 13.2        | 98.24                 | 342.0                             | 4,116.8    | 699.5                | 582.9                 | 116.58                  | 6.000             |                    |        |
| 10,300.0   | 6,553.1             | 6,552.5             | 6,551.7             | 107.2           | 13.2        | 96.96                 | 341.9                             | 4,117.3    | 611.7                | 492.1                 | 119.60                  | 5.114             |                    |        |
| 10,400.0   | 6,552.7             | 6,545.5             | 6,544.6             | 110.0           | 13.2        | 95.67                 | 341.9                             | 4,117.8    | 528.2                | 405.6                 | 122.59                  | 4.308             |                    |        |
| 10,500.0   | 6,552.2             | 6,538.4             | 6,537.5             | 112.7           | 13.2        | 94.37                 | 341.9                             | 4,118.2    | 451.3                | 325.7                 | 125.53                  | 3.595             |                    |        |
| 10,600.0   | 6,551.8             | 6,531.0             | 6,530.2             | 115.5           | 13.1        | 93.02                 | 341.9                             | 4,118.7    | 385.0                | 256.6                 | 128.43                  | 2.998             |                    |        |
| 10,700.0   | 6,551.4             | 6,523.4             | 6,522.6             | 118.3           | 13.1        | 91.62                 | 341.9                             | 4,119.2    | 335.7                | 204.4                 | 131.27                  | 2.557             |                    |        |
| 10,800.0   | 6,550.9             | 6,515.8             | 6,515.0             | 121.1           | 13.1        | 90.22                 | 341.9                             | 4,119.7    | 311.6                | 177.5                 | 134.05                  | 2.324             |                    |        |
| 10,828.6   | 6,550.8             | 6,513.6             | 6,512.9             | 121.9           | 13.1        | 89.82                 | 341.9                             | 4,119.9    | 310.3                | 175.4                 | 134.82                  | 2.301             | CC, ES, SF         |        |
| 10,900.0   | 6,550.5             | 6,508.2             | 6,507.5             | 123.8           | 13.1        | 88.83                 | 341.9                             | 4,120.2    | 318.3                | 181.6                 | 136.75                  | 2.328             |                    |        |
| 11,000.0   | 6,550.1             | 6,500.7             | 6,500.0             | 126.6           | 13.1        | 87.44                 | 342.0                             | 4,120.7    | 354.3                | 214.9                 | 139.37                  | 2.542             |                    |        |
| 11,100.0   | 6,549.6             | 6,493.7             | 6,493.0             | 129.4           | 13.0        | 86.16                 | 342.0                             | 4,121.2    | 411.8                | 269.8                 | 141.93                  | 2.901             |                    |        |
| 11,200.0   | 6,549.2             | 6,487.1             | 6,486.3             | 132.2           | 13.0        | 84.94                 | 342.1                             | 4,121.6    | 483.2                | 338.8                 | 144.44                  | 3.346             |                    |        |
| 11,300.0   | 6,548.8             | 6,480.6             | 6,479.9             | 135.0           | 13.0        | 83.76                 | 342.1                             | 4,122.0    | 563.4                | 416.5                 | 146.89                  | 3.835             |                    |        |
| 11,400.0   | 6,548.3             | 6,474.4             | 6,473.7             | 137.8           | 13.0        | 82.64                 | 342.2                             | 4,122.4    | 649.0                | 499.7                 | 149.29                  | 4.347             |                    |        |
| 11,500.0   | 6,547.9             | 6,468.5             | 6,467.8             | 140.6           | 13.0        | 81.56                 | 342.2                             | 4,122.8    | 738.2                | 586.5                 | 151.64                  | 4.868             |                    |        |
| 11,600.0   | 6,547.4             | 6,462.7             | 6,462.0             | 143.4           | 13.0        | 80.52                 | 342.3                             | 4,123.1    | 829.8                | 675.8                 | 153.95                  | 5.390             |                    |        |
| 11,700.0   | 6,547.0             | 6,457.2             | 6,456.5             | 146.1           | 13.0        | 79.52                 | 342.4                             | 4,123.4    | 923.1                | 766.9                 | 156.22                  | 5.909             |                    |        |

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design        |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   | Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 32-25 - Wellbore #1 - Wellbore #1 |  | Offset Site Error: |  | 0.0 ft |
|----------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--|--|--------------------|--|--------|
| Survey Program: 181- |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   | Offset Well Error:   |  | 0.0 ft             |  |        |
| Reference            |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                    |                   |  |  |                    |  |        |
| Measured Depth       | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning  |  |                    |  |        |
| (ft)                 | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | (ft)               |                   |  |  |                    |  |        |
| 13,900.0             | 6,537.4        | 6,884.7        | 6,536.3        | 207.7           | 37.9   | 96.51             | 364.3                  | 8,092.6    | 946.6           | 704.8            | 241.79             | 3.915             |  |  |                    |  |        |
| 14,000.0             | 6,537.0        | 6,881.3        | 6,532.9        | 210.5           | 37.9   | 95.84             | 364.2                  | 8,092.7    | 852.0           | 607.1            | 244.85             | 3.480             |  |  |                    |  |        |
| 14,100.0             | 6,536.5        | 6,877.9        | 6,529.5        | 213.3           | 37.9   | 95.17             | 364.2                  | 8,092.8    | 758.7           | 510.8            | 247.88             | 3.061             |  |  |                    |  |        |
| 14,200.0             | 6,536.1        | 6,874.6        | 6,526.2        | 216.1           | 37.9   | 94.51             | 364.2                  | 8,092.9    | 667.3           | 416.4            | 250.88             | 2.660             |  |  |                    |  |        |
| 14,300.0             | 6,535.7        | 6,871.2        | 6,522.8        | 218.9           | 37.8   | 93.84             | 364.1                  | 8,093.0    | 578.8           | 324.9            | 253.86             | 2.280             |  |  |                    |  |        |
| 14,400.0             | 6,535.2        | 6,867.9        | 6,519.5        | 221.7           | 37.8   | 93.18             | 364.1                  | 8,093.1    | 494.6           | 237.8            | 256.82             | 1.926             |  |  |                    |  |        |
| 14,500.0             | 6,534.8        | 6,864.6        | 6,516.2        | 224.5           | 37.8   | 92.52             | 364.1                  | 8,093.2    | 417.5           | 157.7            | 259.74             | 1.607             |  |  |                    |  |        |
| 14,600.0             | 6,534.4        | 6,861.3        | 6,512.9        | 227.3           | 37.8   | 91.87             | 364.0                  | 8,093.3    | 352.0           | 89.4             | 262.63             | 1.340             | Level 3  |  |                    |  |        |
| 14,700.0             | 6,533.9        | 6,858.0        | 6,509.6        | 230.1           | 37.8   | 91.22             | 364.0                  | 8,093.4    | 305.8           | 40.3             | 265.50             | 1.152             | Level 2  |  |                    |  |        |
| 14,800.0             | 6,533.5        | 6,854.8        | 6,506.4        | 232.9           | 37.8   | 90.59             | 364.0                  | 8,093.5    | 288.2           | 19.9             | 268.33             | 1.074             | Level 2  |  |                    |  |        |
| 14,802.2             | 6,533.5        | 6,854.7        | 6,506.3        | 232.9           | 37.8   | 90.57             | 364.0                  | 8,093.5    | 288.2           | 19.8             | 268.39             | 1.074             | Level 2, CC, ES, SF  |  |                    |  |        |
| 14,900.0             | 6,533.0        | 6,851.6        | 6,503.2        | 235.7           | 37.8   | 89.96             | 363.9                  | 8,093.5    | 304.4           | 33.2             | 271.13             | 1.123             | Level 2  |  |                    |  |        |
| 15,000.0             | 6,532.6        | 6,848.5        | 6,500.1        | 238.5           | 37.8   | 89.33             | 363.9                  | 8,093.6    | 349.5           | 75.6             | 273.90             | 1.276             | Level 3  |  |                    |  |        |
| 15,100.0             | 6,532.2        | 6,845.4        | 6,497.0        | 241.3           | 37.8   | 88.72             | 363.9                  | 8,093.7    | 414.4           | 137.7            | 276.65             | 1.498             | Level 3  |  |                    |  |        |
| 15,200.0             | 6,531.7        | 6,842.3        | 6,494.0        | 244.1           | 37.8   | 88.11             | 363.8                  | 8,093.8    | 491.1           | 211.8            | 279.36             | 1.758             |  |  |                    |  |        |
| 15,300.0             | 6,531.3        | 6,839.3        | 6,491.0        | 246.9           | 37.8   | 87.52             | 363.8                  | 8,093.9    | 575.0           | 293.0            | 282.05             | 2.039             |  |  |                    |  |        |
| 15,400.0             | 6,530.9        | 6,836.3        | 6,488.0        | 249.7           | 37.8   | 86.93             | 363.8                  | 8,093.9    | 663.4           | 378.7            | 284.70             | 2.330             |  |  |                    |  |        |
| 15,500.0             | 6,530.4        | 6,833.4        | 6,485.0        | 252.5           | 37.8   | 86.34             | 363.8                  | 8,094.0    | 754.7           | 467.4            | 287.33             | 2.627             |  |  |                    |  |        |
| 15,600.0             | 6,530.0        | 6,830.5        | 6,482.1        | 255.3           | 37.8   | 85.77             | 363.7                  | 8,094.1    | 847.9           | 558.0            | 289.93             | 2.925             |  |  |                    |  |        |
| 15,700.0             | 6,529.6        | 6,827.6        | 6,479.3        | 258.1           | 37.8   | 85.20             | 363.7                  | 8,094.2    | 942.6           | 650.1            | 292.50             | 3.222             |  |  |                    |  |        |

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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             |        |
| 15,200.0   | 6,531.7             | 6,584.0             | 6,497.1             | 244.1           | 19.9        | 89.65                 | 376.6                             | 9,401.8    | 951.3                | 691.1                 | 260.20                  | 3.656             |                     |        |
| 15,300.0   | 6,531.3             | 6,584.0             | 6,497.1             | 246.9           | 19.9        | 89.65                 | 376.6                             | 9,401.8    | 856.1                | 593.1                 | 263.00                  | 3.255             |                     |        |
| 15,400.0   | 6,530.9             | 6,584.0             | 6,497.1             | 249.7           | 19.9        | 89.65                 | 376.6                             | 9,401.8    | 762.1                | 496.3                 | 265.80                  | 2.867             |                     |        |
| 15,500.0   | 6,530.4             | 6,584.0             | 6,497.1             | 252.5           | 19.9        | 89.65                 | 376.6                             | 9,401.8    | 669.8                | 401.2                 | 268.61                  | 2.494             |                     |        |
| 15,600.0   | 6,530.0             | 6,584.0             | 6,497.1             | 255.3           | 19.9        | 89.65                 | 376.6                             | 9,401.8    | 580.1                | 308.7                 | 271.41                  | 2.137             |                     |        |
| 15,700.0   | 6,529.6             | 6,584.0             | 6,497.1             | 258.1           | 19.9        | 89.65                 | 376.6                             | 9,401.8    | 494.4                | 220.2                 | 274.22                  | 1.803             |                     |        |
| 15,800.0   | 6,529.1             | 6,584.0             | 6,497.1             | 260.9           | 19.9        | 89.65                 | 376.6                             | 9,401.8    | 415.1                | 138.1                 | 277.02                  | 1.499             | Level 3             |        |
| 15,900.0   | 6,528.7             | 6,584.0             | 6,497.1             | 263.7           | 19.9        | 89.65                 | 376.6                             | 9,401.8    | 346.8                | 66.9                  | 279.82                  | 1.239             | Level 2             |        |
| 16,000.0   | 6,528.2             | 6,587.0             | 6,500.1             | 266.5           | 19.9        | 90.28                 | 376.6                             | 9,401.8    | 296.9                | 14.2                  | 282.64                  | 1.050             | Level 2             |        |
| 16,100.0   | 6,527.8             | 6,586.6             | 6,499.7             | 269.3           | 19.9        | 90.19                 | 376.6                             | 9,401.8    | 275.7                | -9.7                  | 285.45                  | 0.966             | Level 1             |        |
| 16,110.5   | 6,527.8             | 6,586.6             | 6,499.6             | 269.6           | 19.9        | 90.18                 | 376.6                             | 9,401.8    | 275.5                | -10.2                 | 285.74                  | 0.964             | Level 1, CC, ES, SF |        |
| 16,200.0   | 6,527.4             | 6,586.1             | 6,499.2             | 272.1           | 19.9        | 90.09                 | 376.6                             | 9,401.8    | 289.7                | 1.5                   | 288.25                  | 1.005             | Level 2             |        |
| 16,284.8   | 6,527.0             | 6,585.7             | 6,498.8             | 274.5           | 19.9        | 90.00                 | 376.6                             | 9,401.8    | 326.1                | 35.4                  | 290.63                  | 1.122             | Level 2             |        |

|                           |                                      |                                     |                             |
|---------------------------|--------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP DJ Basin  | <b>Local Co-ordinate Reference:</b> | Well Bihain 26F-232         |
| <b>Project:</b>           | SEC.26-T5N-R64W                      | <b>TVD Reference:</b>               | WELL @ 4627.0ft (RKB - 23') |
| <b>Reference Site:</b>    | Bihain 5N64W26GK Pad Sec.26-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4627.0ft (RKB - 23') |
| <b>Site Error:</b>        | 0.0 ft                               | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Bihain 26F-232                       | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0 ft                               | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                          | <b>Database:</b>                    | US_EDM                      |
| <b>Reference Design:</b>  | Plan #1 Extention (3-3-16)           | <b>Offset TVD Reference:</b>        | 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 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   |                    |        |
| 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            |        |
| 15,000.0  | 6,532.6             | 6,801.1             | 6,505.2             | 238.5           | 32.7        | 90.32                 | -199.7                            | 8,792.7    | 988.5                | 725.7                 | 262.82                  | 3.761             |                    |        |
| 15,100.0  | 6,532.2             | 6,799.8             | 6,503.9             | 241.3           | 32.7        | 90.24                 | -199.7                            | 8,792.8    | 941.8                | 676.1                 | 265.63                  | 3.545             |                    |        |
| 15,200.0  | 6,531.7             | 6,798.5             | 6,502.6             | 244.1           | 32.7        | 90.15                 | -199.7                            | 8,792.8    | 903.7                | 635.3                 | 268.43                  | 3.367             |                    |        |
| 15,300.0  | 6,531.3             | 6,797.2             | 6,501.3             | 246.9           | 32.7        | 90.06                 | -199.7                            | 8,792.8    | 875.4                | 604.2                 | 271.23                  | 3.228             |                    |        |
| 15,400.0  | 6,530.9             | 6,795.8             | 6,500.0             | 249.7           | 32.7        | 89.97                 | -199.7                            | 8,792.8    | 857.9                | 583.9                 | 274.04                  | 3.131             |                    |        |
| 15,500.0  | 6,530.4             | 6,794.5             | 6,498.6             | 252.5           | 32.7        | 89.88                 | -199.7                            | 8,792.8    | 851.9                | 575.1                 | 276.84                  | 3.077             |                    |        |
| 15,501.5  | 6,530.4             | 6,794.5             | 6,498.6             | 252.5           | 32.7        | 89.88                 | -199.7                            | 8,792.8    | 851.9                | 575.0                 | 276.88                  | 3.077 CC, ES      |                    |        |
| 15,600.0  | 6,530.0             | 6,793.1             | 6,497.2             | 255.3           | 32.7        | 89.79                 | -199.7                            | 8,792.8    | 857.6                | 577.9                 | 279.64                  | 3.067 SF          |                    |        |
| 15,700.0  | 6,529.6             | 6,791.7             | 6,495.8             | 258.1           | 32.7        | 89.69                 | -199.7                            | 8,792.8    | 874.7                | 592.3                 | 282.44                  | 3.097             |                    |        |
| 15,800.0  | 6,529.1             | 6,790.3             | 6,494.4             | 260.9           | 32.7        | 89.60                 | -199.7                            | 8,792.9    | 902.7                | 617.4                 | 285.24                  | 3.164             |                    |        |
| 15,900.0  | 6,528.7             | 6,788.8             | 6,493.0             | 263.7           | 32.7        | 89.50                 | -199.7                            | 8,792.9    | 940.5                | 652.4                 | 288.04                  | 3.265             |                    |        |
| 16,000.0  | 6,528.2             | 6,787.4             | 6,491.5             | 266.5           | 32.7        | 89.40                 | -199.7                            | 8,792.9    | 987.0                | 696.1                 | 290.84                  | 3.394             |                    |        |

|  |  |
|--|--|
| Reference Depths are relative to WELL @ 4627.0ft (RKB - 23') | Coordinates are relative to: Bihain 26F-232                      |
| Offset Depths are relative to Offset Datum                   | Coordinate System is US State Plane 1983, Colorado Northern Zone |
| Central Meridian is -105.500000                              | Grid Convergence at Surface is: 0.63°                            |



Coordinates are relative to: Bihain 26F-232  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.63°

