

PETROLEUM DEVELOPMENT CORP DJ Basin

Well Name: **Bihain 26G-202**

Surface Location: Bihain 5N64W26GK Pad Sec.26-T5N-R64W

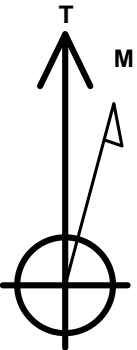
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone

Ground Elevation: 4604.0

+N/-S +E/-W Northing Easting Longitude Slot
0.0 0.0 1379515.22 3271762.77 40.371068 -104.524624
RKB - 13' WELL @ 4617.0ft (RKB - 13')

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2387'FNL & 496'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 2608'FSL & 2140'FWL, Sec.25	6503.0	-277.0	6923.5	Point



Azimuths to True North
Magnetic North: 8.14°

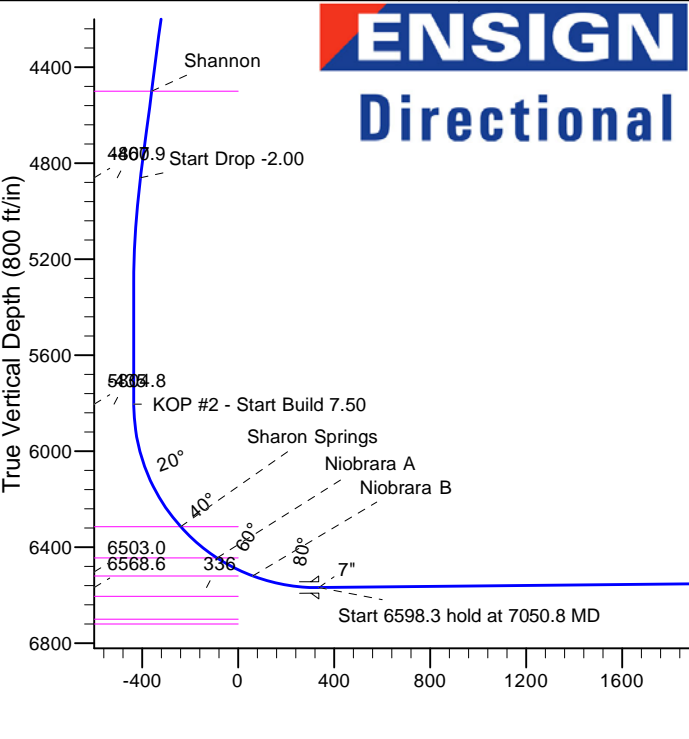
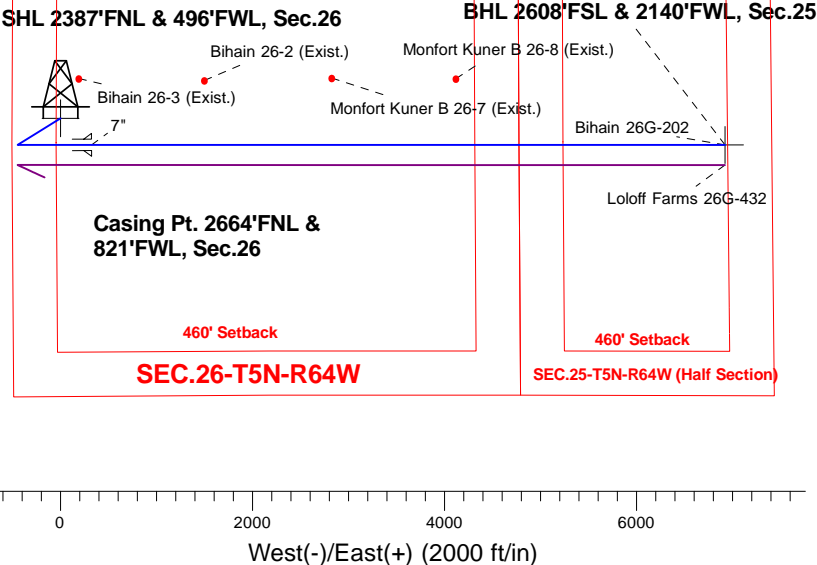
Magnetic Field
Strength: 52680.8snT
Dip Angle: 66.91°
Date: 11/2/2015
Model: IGRF2010

Bihain 5N64W26GK Pad Sec.26-T5N-R64W
Bihain 26G-202
Plan #1 (11-2-15)
14:33, November 04 2015

ANNOTATIONS

TVD	MD	Annotation
1400.0	1400.0	KOP - Start Build 1.50
4860.9	4897.6	Start Drop -2.00
5804.7	5843.2	KOP #2 - Start Build 7.50
6568.6	7050.8	Start 6598.3 hold at 7050.8 MD
6503.0	13649.0	TD at 13649.0

South(-)/North(+) (2000 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	1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	
3	1987.8	8.82	238.16	1985.5	-23.8	-38.3	1.50	238.16	-37.4	
4	4897.6	8.82	238.16	4860.9	-259.1	-417.2	0.00	0.00	-406.5	
5	5338.4	0.00	0.00	5300.0	-277.0	-446.0	2.00	180.00	-434.6	
6	5843.2	0.00	0.00	5804.7	-277.0	-446.0	0.00	0.00	-434.6	
7	7050.8	90.57	90.00	6568.6	-277.0	325.5	7.50	90.00	336.4	
8	13649.0	90.57	90.00	6503.0	-277.0	6923.5	0.00	0.00	6929.0	BHL 2608'FSL & 2140'FWL, Sec.25

BHL 2608'FSL & 2140'FWL, Sec.25

Vertical Section at 92.29° (800 ft/in)



Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Bihain 5N64W26GK Pad Sec.26-T5N-R64W

Bihain 26G-202

Wellbore #1

Plan: Plan #1 (11-2-15)

Standard Planning Report

04 November, 2015

Database:	US_EDM	Local Co-ordinate Reference:	Well Bihain 26G-202
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-2-15)		

Project	SEC.26-T5N-R64W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

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

Well	Bihain 26G-202		
Well Position	+N/-S	-9.5 ft	Northing:
	+E/-W	11.7 ft	Easting:
Position Uncertainty		0.0 ft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

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

Design	Plan #1 (11-2-15)		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction (°)
			92.29

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,987.8	8.82	238.16	1,985.5	-23.8	-38.3	1.50	1.50	0.00	238.16	
4,897.6	8.82	238.16	4,860.9	-259.1	-417.2	0.00	0.00	0.00	0.00	
5,338.4	0.00	0.00	5,300.0	-277.0	-446.0	2.00	-2.00	0.00	180.00	
5,843.2	0.00	0.00	5,804.7	-277.0	-446.0	0.00	0.00	0.00	0.00	
7,050.8	90.57	90.00	6,568.6	-277.0	325.5	7.50	7.50	0.00	90.00	
13,649.0	90.57	90.00	6,503.0	-277.0	6,923.5	0.00	0.00	0.00	0.00	BHL 2608'FSL & 214C

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Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-2-15)		

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 2387°FNL & 496°FWL, Sec.26									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.50									
1,500.0	1.50	238.16	1,500.0	-0.7	-1.1	-1.1	1.50	1.50	0.00
1,600.0	3.00	238.16	1,599.9	-2.8	-4.4	-4.3	1.50	1.50	0.00
1,700.0	4.50	238.16	1,699.7	-6.2	-10.0	-9.7	1.50	1.50	0.00
1,800.0	6.00	238.16	1,799.3	-11.0	-17.8	-17.3	1.50	1.50	0.00
1,900.0	7.50	238.16	1,898.6	-17.2	-27.8	-27.0	1.50	1.50	0.00
1,987.8	8.82	238.16	1,985.5	-23.8	-38.3	-37.4	1.50	1.50	0.00
2,000.0	8.82	238.16	1,997.5	-24.8	-39.9	-38.9	0.00	0.00	0.00
2,100.0	8.82	238.16	2,096.4	-32.9	-53.0	-51.6	0.00	0.00	0.00
2,200.0	8.82	238.16	2,195.2	-41.0	-66.0	-64.3	0.00	0.00	0.00
2,300.0	8.82	238.16	2,294.0	-49.1	-79.0	-77.0	0.00	0.00	0.00
2,400.0	8.82	238.16	2,392.8	-57.2	-92.0	-89.7	0.00	0.00	0.00
2,500.0	8.82	238.16	2,491.6	-65.2	-105.0	-102.3	0.00	0.00	0.00
2,600.0	8.82	238.16	2,590.4	-73.3	-118.1	-115.0	0.00	0.00	0.00
2,700.0	8.82	238.16	2,689.3	-81.4	-131.1	-127.7	0.00	0.00	0.00
2,800.0	8.82	238.16	2,788.1	-89.5	-144.1	-140.4	0.00	0.00	0.00
2,900.0	8.82	238.16	2,886.9	-97.6	-157.1	-153.1	0.00	0.00	0.00
3,000.0	8.82	238.16	2,985.7	-105.7	-170.1	-165.8	0.00	0.00	0.00
3,100.0	8.82	238.16	3,084.5	-113.8	-183.2	-178.5	0.00	0.00	0.00
3,200.0	8.82	238.16	3,183.4	-121.8	-196.2	-191.2	0.00	0.00	0.00
3,300.0	8.82	238.16	3,282.2	-129.9	-209.2	-203.9	0.00	0.00	0.00
3,400.0	8.82	238.16	3,381.0	-138.0	-222.2	-216.5	0.00	0.00	0.00
3,419.2	8.82	238.16	3,400.0	-139.6	-224.7	-219.0	0.00	0.00	0.00
Parkman									
3,500.0	8.82	238.16	3,479.8	-146.1	-235.3	-229.2	0.00	0.00	0.00
3,600.0	8.82	238.16	3,578.6	-154.2	-248.3	-241.9	0.00	0.00	0.00
3,700.0	8.82	238.16	3,677.4	-162.3	-261.3	-254.6	0.00	0.00	0.00
3,800.0	8.82	238.16	3,776.3	-170.4	-274.3	-267.3	0.00	0.00	0.00
3,900.0	8.82	238.16	3,875.1	-178.5	-287.3	-280.0	0.00	0.00	0.00
4,000.0	8.82	238.16	3,973.9	-186.5	-300.4	-292.7	0.00	0.00	0.00
4,100.0	8.82	238.16	4,072.7	-194.6	-313.4	-305.4	0.00	0.00	0.00
4,132.7	8.82	238.16	4,105.0	-197.3	-317.6	-309.5	0.00	0.00	0.00
Sussex									
4,200.0	8.82	238.16	4,171.5	-202.7	-326.4	-318.0	0.00	0.00	0.00
4,300.0	8.82	238.16	4,270.4	-210.8	-339.4	-330.7	0.00	0.00	0.00
4,400.0	8.82	238.16	4,369.2	-218.9	-352.4	-343.4	0.00	0.00	0.00

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Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-2-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,500.0	8.82	238.16	4,468.0	-227.0	-365.5	-356.1	0.00	0.00	0.00
4,532.4	8.82	238.16	4,500.0	-229.6	-369.7	-360.2	0.00	0.00	0.00
Shannon									
4,600.0	8.82	238.16	4,566.8	-235.1	-378.5	-368.8	0.00	0.00	0.00
4,700.0	8.82	238.16	4,665.6	-243.2	-391.5	-381.5	0.00	0.00	0.00
4,800.0	8.82	238.16	4,764.4	-251.2	-404.5	-394.2	0.00	0.00	0.00
4,897.6	8.82	238.16	4,860.9	-259.1	-417.2	-406.6	0.00	0.00	0.00
Start Drop -2.00									
4,900.0	8.77	238.16	4,863.3	-259.3	-417.6	-406.9	2.02	-2.02	0.00
5,000.0	6.77	238.16	4,962.3	-266.5	-429.0	-418.0	2.00	-2.00	0.00
5,100.0	4.77	238.16	5,061.8	-271.8	-437.6	-426.4	2.00	-2.00	0.00
5,200.0	2.77	238.16	5,161.6	-275.2	-443.2	-431.8	2.00	-2.00	0.00
5,300.0	0.77	238.16	5,261.6	-276.9	-445.8	-434.4	2.00	-2.00	0.00
5,338.4	0.00	0.00	5,300.0	-277.0	-446.0	-434.6	2.00	-2.00	0.00
5,400.0	0.00	0.00	5,361.6	-277.0	-446.0	-434.6	0.00	0.00	0.00
5,500.0	0.00	0.00	5,461.6	-277.0	-446.0	-434.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,561.6	-277.0	-446.0	-434.6	0.00	0.00	0.00
5,700.0	0.00	0.00	5,661.6	-277.0	-446.0	-434.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,761.6	-277.0	-446.0	-434.6	0.00	0.00	0.00
5,843.2	0.00	0.00	5,804.8	-277.0	-446.0	-434.6	0.00	0.00	0.00
KOP #2 - Start Build 7.50									
5,900.0	4.26	90.00	5,861.5	-277.0	-443.9	-432.5	7.50	7.50	0.00
6,000.0	11.76	90.00	5,960.5	-277.0	-430.0	-418.5	7.50	7.50	0.00
6,100.0	19.26	90.00	6,056.7	-277.0	-403.2	-391.8	7.50	7.50	0.00
6,200.0	26.76	90.00	6,148.7	-277.0	-364.2	-352.8	7.50	7.50	0.00
6,300.0	34.26	90.00	6,234.8	-277.0	-313.4	-302.1	7.50	7.50	0.00
6,400.0	41.76	90.00	6,313.5	-277.0	-251.9	-240.6	7.50	7.50	0.00
6,402.0	41.91	90.00	6,315.0	-277.0	-250.6	-239.3	7.50	7.50	0.00
Sharon Springs									
6,500.0	49.26	90.00	6,383.6	-277.0	-180.6	-169.4	7.50	7.50	0.00
6,600.0	56.76	90.00	6,443.7	-277.0	-100.8	-89.6	7.50	7.50	0.00
6,602.4	56.94	90.00	6,445.0	-277.0	-98.8	-87.6	7.50	7.50	0.00
Niobrara A									
6,700.0	64.26	90.00	6,492.9	-277.0	-13.8	-2.7	7.50	7.50	0.00
6,769.0	69.44	90.00	6,520.0	-277.0	49.6	60.6	7.50	7.50	0.00
Niobrara B									
6,800.0	71.76	90.00	6,530.3	-277.0	78.9	89.9	7.50	7.50	0.00
6,900.0	79.26	90.00	6,555.3	-277.0	175.6	186.5	7.50	7.50	0.00
7,000.0	86.76	90.00	6,567.5	-277.0	274.8	285.6	7.50	7.50	0.00
7,050.8	90.57	90.00	6,568.6	-277.0	325.6	336.4	7.50	7.50	0.00
Start 6598.3 hold at 7050.8 MD - 7"									
7,100.0	90.57	90.00	6,568.2	-277.0	374.8	385.5	0.00	0.00	0.00
7,200.0	90.57	90.00	6,567.2	-277.0	474.8	485.5	0.00	0.00	0.00
7,300.0	90.57	90.00	6,566.2	-277.0	574.8	585.4	0.00	0.00	0.00
7,400.0	90.57	90.00	6,565.2	-277.0	674.7	685.3	0.00	0.00	0.00
7,500.0	90.57	90.00	6,564.2	-277.0	774.7	785.2	0.00	0.00	0.00
7,600.0	90.57	90.00	6,563.2	-277.0	874.7	885.1	0.00	0.00	0.00
7,700.0	90.57	90.00	6,562.2	-277.0	974.7	985.0	0.00	0.00	0.00
7,800.0	90.57	90.00	6,561.2	-277.0	1,074.7	1,084.9	0.00	0.00	0.00
7,900.0	90.57	90.00	6,560.2	-277.0	1,174.7	1,184.9	0.00	0.00	0.00
8,000.0	90.57	90.00	6,559.2	-277.0	1,274.7	1,284.8	0.00	0.00	0.00
8,100.0	90.57	90.00	6,558.2	-277.0	1,374.7	1,384.7	0.00	0.00	0.00

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Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-2-15)		

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	90.57	90.00	6,557.2	-277.0	1,474.7	1,484.6	0.00	0.00	0.00
8,300.0	90.57	90.00	6,556.2	-277.0	1,574.7	1,584.5	0.00	0.00	0.00
8,400.0	90.57	90.00	6,555.2	-277.0	1,674.7	1,684.4	0.00	0.00	0.00
8,500.0	90.57	90.00	6,554.2	-277.0	1,774.7	1,784.3	0.00	0.00	0.00
8,600.0	90.57	90.00	6,553.2	-277.0	1,874.7	1,884.3	0.00	0.00	0.00
8,700.0	90.57	90.00	6,552.2	-277.0	1,974.7	1,984.2	0.00	0.00	0.00
8,800.0	90.57	90.00	6,551.2	-277.0	2,074.7	2,084.1	0.00	0.00	0.00
8,900.0	90.57	90.00	6,550.2	-277.0	2,174.7	2,184.0	0.00	0.00	0.00
9,000.0	90.57	90.00	6,549.2	-277.0	2,274.7	2,283.9	0.00	0.00	0.00
9,100.0	90.57	90.00	6,548.3	-277.0	2,374.7	2,383.8	0.00	0.00	0.00
9,200.0	90.57	90.00	6,547.3	-277.0	2,474.7	2,483.8	0.00	0.00	0.00
9,300.0	90.57	90.00	6,546.3	-277.0	2,574.7	2,583.7	0.00	0.00	0.00
9,400.0	90.57	90.00	6,545.3	-277.0	2,674.7	2,683.6	0.00	0.00	0.00
9,500.0	90.57	90.00	6,544.3	-277.0	2,774.6	2,783.5	0.00	0.00	0.00
9,600.0	90.57	90.00	6,543.3	-277.0	2,874.6	2,883.4	0.00	0.00	0.00
9,700.0	90.57	90.00	6,542.3	-277.0	2,974.6	2,983.3	0.00	0.00	0.00
9,800.0	90.57	90.00	6,541.3	-277.0	3,074.6	3,083.2	0.00	0.00	0.00
9,900.0	90.57	90.00	6,540.3	-277.0	3,174.6	3,183.2	0.00	0.00	0.00
10,000.0	90.57	90.00	6,539.3	-277.0	3,274.6	3,283.1	0.00	0.00	0.00
10,100.0	90.57	90.00	6,538.3	-277.0	3,374.6	3,383.0	0.00	0.00	0.00
10,200.0	90.57	90.00	6,537.3	-277.0	3,474.6	3,482.9	0.00	0.00	0.00
10,300.0	90.57	90.00	6,536.3	-277.0	3,574.6	3,582.8	0.00	0.00	0.00
10,400.0	90.57	90.00	6,535.3	-277.0	3,674.6	3,682.7	0.00	0.00	0.00
10,500.0	90.57	90.00	6,534.3	-277.0	3,774.6	3,782.7	0.00	0.00	0.00
10,600.0	90.57	90.00	6,533.3	-277.0	3,874.6	3,882.6	0.00	0.00	0.00
10,700.0	90.57	90.00	6,532.3	-277.0	3,974.6	3,982.5	0.00	0.00	0.00
10,800.0	90.57	90.00	6,531.3	-277.0	4,074.6	4,082.4	0.00	0.00	0.00
10,900.0	90.57	90.00	6,530.3	-277.0	4,174.6	4,182.3	0.00	0.00	0.00
11,000.0	90.57	90.00	6,529.4	-277.0	4,274.6	4,282.2	0.00	0.00	0.00
11,100.0	90.57	90.00	6,528.4	-277.0	4,374.6	4,382.1	0.00	0.00	0.00
11,200.0	90.57	90.00	6,527.4	-277.0	4,474.6	4,482.1	0.00	0.00	0.00
11,300.0	90.57	90.00	6,526.4	-277.0	4,574.6	4,582.0	0.00	0.00	0.00
11,400.0	90.57	90.00	6,525.4	-277.0	4,674.6	4,681.9	0.00	0.00	0.00
11,500.0	90.57	90.00	6,524.4	-277.0	4,774.5	4,781.8	0.00	0.00	0.00
11,600.0	90.57	90.00	6,523.4	-277.0	4,874.5	4,881.7	0.00	0.00	0.00
11,700.0	90.57	90.00	6,522.4	-277.0	4,974.5	4,981.6	0.00	0.00	0.00
11,800.0	90.57	90.00	6,521.4	-277.0	5,074.5	5,081.5	0.00	0.00	0.00
11,900.0	90.57	90.00	6,520.4	-277.0	5,174.5	5,181.5	0.00	0.00	0.00
12,000.0	90.57	90.00	6,519.4	-277.0	5,274.5	5,281.4	0.00	0.00	0.00
12,100.0	90.57	90.00	6,518.4	-277.0	5,374.5	5,381.3	0.00	0.00	0.00
12,200.0	90.57	90.00	6,517.4	-277.0	5,474.5	5,481.2	0.00	0.00	0.00
12,300.0	90.57	90.00	6,516.4	-277.0	5,574.5	5,581.1	0.00	0.00	0.00
12,400.0	90.57	90.00	6,515.4	-277.0	5,674.5	5,681.0	0.00	0.00	0.00
12,500.0	90.57	90.00	6,514.4	-277.0	5,774.5	5,781.0	0.00	0.00	0.00
12,600.0	90.57	90.00	6,513.4	-277.0	5,874.5	5,880.9	0.00	0.00	0.00
12,700.0	90.57	90.00	6,512.4	-277.0	5,974.5	5,980.8	0.00	0.00	0.00
12,800.0	90.57	90.00	6,511.4	-277.0	6,074.5	6,080.7	0.00	0.00	0.00
12,900.0	90.57	90.00	6,510.5	-277.0	6,174.5	6,180.6	0.00	0.00	0.00
13,000.0	90.57	90.00	6,509.5	-277.0	6,274.5	6,280.5	0.00	0.00	0.00
13,100.0	90.57	90.00	6,508.5	-277.0	6,374.5	6,380.4	0.00	0.00	0.00
13,200.0	90.57	90.00	6,507.5	-277.0	6,474.5	6,480.4	0.00	0.00	0.00
13,300.0	90.57	90.00	6,506.5	-277.0	6,574.5	6,580.3	0.00	0.00	0.00
13,400.0	90.57	90.00	6,505.5	-277.0	6,674.5	6,680.2	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Bihain 26G-202
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-2-15)		

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	90.57	90.00	6,504.5	-277.0	6,774.4	6,780.1	0.00	0.00	0.00
13,600.0	90.57	90.00	6,503.5	-277.0	6,874.4	6,880.0	0.00	0.00	0.00
13,649.0	90.57	90.00	6,503.0	-277.0	6,923.4	6,929.0	0.00	0.00	0.00
TD at 13649.0 - BHL 2608'FSL & 2140'FWL, Sec.25									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL 2387'FNL & 496'FW - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,379,515.23	3,271,762.77	40.371068	-104.524624
BHL 2608'FSL & 2140'F - plan hits target center - Point	0.00	0.00	6,503.0	-277.0	6,923.5	1,379,314.41	3,278,688.58	40.370305	-104.499777

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,050.8	6,568.6	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,419.2	3,400.0	Parkman		0.00	
4,132.7	4,105.0	Sussex		0.00	
4,532.4	4,500.0	Shannon		0.00	
6,402.0	6,315.0	Sharon Springs		0.00	
6,602.4	6,445.0	Niobrara A		0.00	
6,769.0	6,520.0	Niobrara B		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,400.0	1,400.0	0.0	0.0	KOP - Start Build 1.50
4,897.6	4,860.9	-23.8	-38.3	Start Drop -2.00
5,843.2	5,804.7	-259.1	-417.2	KOP #2 - Start Build 7.50
7,050.8	6,568.6	-277.0	-446.0	Start 6598.3 hold at 7050.8 MD
13,649.0	6,503.0	-277.0	-446.0	TD at 13649.0



Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Bihain 5N64W26GK Pad Sec.26-T5N-R64W

Bihain 26G-202

Wellbore #1

Plan #1 (11-2-15)

Anticollision Report

04 November, 2015



Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (11-2-15)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0 ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	11/4/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	13,649.0	Plan #1 (11-2-15) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Bihain 5N64W26GK Pad Sec.26-T5N-R64W						
Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)	1,200.0	1,200.0	45.0	39.8	8.695	CC, ES
Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)	13,649.0	13,720.0	735.0	335.5	1.840	SF
Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)	1,636.4	1,636.1	28.5	21.4	4.036	CC, ES
Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)	13,649.0	13,639.5	445.2	43.1	1.107	Level 2, SF
Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)	1,594.3	1,594.2	14.2	7.3	2.066	CC
Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)	13,649.0	13,708.1	227.6	-150.6	0.602	Level 1, ES, SF
Existing Wells Pad Sec.26-T5N-R64W						
Bihain 26-2 (Exist.) - Wellbore #1 - Wellbore #1	8,224.4	6,537.0	670.9	489.7	3.702	CC, ES
Bihain 26-2 (Exist.) - Wellbore #1 - Wellbore #1	8,300.0	6,536.2	675.1	491.9	3.685	SF
Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1	1,400.0	1,382.0	457.0	426.3	14.898	CC
Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1	1,500.0	1,482.0	458.1	425.2	13.936	ES
Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1	7,000.0	6,549.5	697.0	545.1	4.589	SF
Monfort Kuner B 26-7 (Exist.) - Wellbore #1 - Wellbore #1	9,552.1	6,519.8	698.3	481.2	3.217	CC, ES
Monfort Kuner B 26-7 (Exist.) - Wellbore #1 - Wellbore #1	9,600.0	6,519.3	699.9	481.6	3.205	SF
Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1	10,843.7	6,503.9	690.5	437.9	2.733	CC, ES
Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1	10,900.0	6,503.3	692.8	438.6	2.726	SF
Loloff Farms 5N64W26G Pad Sec.26-T5N-R64W						
Loloff Farms 26G-432 - Wellbore #1 - Plan #2 (3-9-15)	5,843.2	5,837.3	209.4	182.8	7.875	CC
Loloff Farms 26G-432 - Wellbore #1 - Plan #2 (3-9-15)	13,649.0	13,797.6	276.2	-37.0	0.882	Level 1, ES, SF

Offset Design													Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)		Offset Site Error:		0.0 ft	
Survey Program:				0-MWD									Offset Well Error:		0.0 ft			
Reference		Offset		Semi Major Axis			Distance						Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor						
	0.0	0.0	0.0	0.0	0.0	-50.79	28.4		-34.8	45.0								
	100.0	100.0	100.0	100.0	0.1	0.1	-50.79	28.4		-34.8	45.0	44.7	0.22	199.991				
	200.0	200.0	200.0	200.0	0.3	0.3	-50.79	28.4		-34.8	45.0	44.3	0.67	66.664				
	300.0	300.0	300.0	300.0	0.6	0.6	-50.79	28.4		-34.8	45.0	43.8	1.12	39.998				
	400.0	400.0	400.0	400.0	0.8	0.8	-50.79	28.4		-34.8	45.0	43.4	1.57	28.570				
	500.0	500.0	500.0	500.0	1.0	1.0	-50.79	28.4		-34.8	45.0	42.9	2.02	22.221				

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
600.0	600.0	600.0	600.0	1.2	1.2	-50.79	28.4	-34.8	45.0	42.5	2.47	18.181		
700.0	700.0	700.0	700.0	1.5	1.5	-50.79	28.4	-34.8	45.0	42.0	2.92	15.384		
800.0	800.0	800.0	800.0	1.7	1.7	-50.79	28.4	-34.8	45.0	41.6	3.37	13.333		
900.0	900.0	900.0	900.0	1.9	1.9	-50.79	28.4	-34.8	45.0	41.1	3.82	11.764		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-50.79	28.4	-34.8	45.0	40.7	4.27	10.526		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-50.79	28.4	-34.8	45.0	40.2	4.72	9.523		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-50.79	28.4	-34.8	45.0	39.8	5.17	8.695 CC, ES		
1,300.0	1,300.0	1,298.8	1,298.8	2.8	2.8	-50.60	29.3	-35.7	46.2	40.6	5.61	8.238		
1,400.0	1,400.0	1,397.5	1,397.4	3.0	3.0	-50.11	32.1	-38.4	50.1	44.0	6.05	8.276		
1,500.0	1,500.0	1,496.0	1,495.7	3.2	3.2	73.59	36.7	-42.8	56.1	49.7	6.47	8.671		
1,600.0	1,599.9	1,594.0	1,593.3	3.4	3.5	77.36	43.0	-48.9	64.2	57.3	6.88	9.330		
1,700.0	1,699.7	1,691.5	1,690.2	3.6	3.7	82.07	51.1	-56.8	74.6	67.3	7.30	10.225		
1,800.0	1,799.3	1,788.3	1,786.0	3.8	4.0	86.96	60.9	-66.3	87.8	80.0	7.73	11.353		
1,900.0	1,898.6	1,886.7	1,883.2	4.1	4.2	91.83	71.8	-76.8	102.9	94.7	8.19	12.552		
1,987.8	1,985.5	1,973.0	1,968.5	4.3	4.5	96.06	81.4	-86.1	116.8	108.2	8.62	13.548		
2,000.0	1,997.5	1,985.0	1,980.3	4.3	4.5	96.65	82.7	-87.4	118.8	110.1	8.68	13.682		
2,100.0	2,096.4	2,083.1	2,077.3	4.6	4.8	100.90	93.6	-97.9	135.6	126.4	9.20	14.746		
2,200.0	2,195.2	2,181.2	2,174.2	4.9	5.1	104.21	104.5	-108.5	153.0	143.3	9.73	15.727		
2,300.0	2,294.0	2,279.4	2,271.2	5.2	5.5	106.83	115.4	-119.0	170.8	160.5	10.28	16.621		
2,400.0	2,392.8	2,377.5	2,368.1	5.5	5.8	108.96	126.3	-129.6	188.9	178.0	10.83	17.432		
2,500.0	2,491.6	2,475.6	2,465.1	5.8	6.1	110.72	137.2	-140.1	207.2	195.7	11.40	18.166		
2,600.0	2,590.4	2,573.8	2,562.0	6.1	6.4	112.19	148.1	-150.6	225.6	213.6	11.98	18.831		
2,700.0	2,689.3	2,671.9	2,659.0	6.4	6.7	113.44	159.0	-161.2	244.1	231.6	12.56	19.433		
2,800.0	2,788.1	2,770.0	2,755.9	6.7	7.1	114.51	169.9	-171.7	262.8	249.7	13.15	19.980		
2,900.0	2,886.9	2,868.2	2,852.9	7.1	7.4	115.44	180.8	-182.3	281.5	267.8	13.75	20.478		
3,000.0	2,985.7	2,966.3	2,949.9	7.4	7.8	116.26	191.6	-192.8	300.3	286.0	14.35	20.932		
3,100.0	3,084.5	3,064.4	3,046.8	7.8	8.1	116.98	202.5	-203.3	319.2	304.2	14.95	21.347		
3,200.0	3,183.4	3,162.6	3,143.8	8.1	8.4	117.62	213.4	-213.9	338.1	322.5	15.56	21.728		
3,300.0	3,282.2	3,260.7	3,240.7	8.5	8.8	118.19	224.3	-224.4	357.0	340.8	16.17	22.079		
3,400.0	3,381.0	3,358.9	3,337.7	8.8	9.1	118.70	235.2	-235.0	376.0	359.2	16.78	22.402		
3,500.0	3,479.8	3,457.0	3,434.6	9.2	9.5	119.17	246.1	-245.5	394.9	377.5	17.40	22.701		
3,600.0	3,578.6	3,555.1	3,531.6	9.5	9.8	119.59	257.0	-256.0	414.0	395.9	18.02	22.977		
3,700.0	3,677.4	3,653.3	3,628.6	9.9	10.2	119.97	267.9	-266.6	433.0	414.3	18.64	23.234		
3,800.0	3,776.3	3,751.4	3,725.5	10.2	10.5	120.32	278.8	-277.1	452.0	432.8	19.26	23.473		
3,900.0	3,875.1	3,849.5	3,822.5	10.6	10.9	120.65	289.7	-287.7	471.1	451.2	19.88	23.696		
4,000.0	3,973.9	3,947.7	3,919.4	10.9	11.2	120.95	300.6	-298.2	490.2	469.7	20.50	23.904		
4,100.0	4,072.7	4,045.8	4,016.4	11.3	11.6	121.22	311.5	-308.7	509.2	488.1	21.13	24.099		
4,200.0	4,171.5	4,143.9	4,113.3	11.7	11.9	121.48	322.3	-319.3	528.3	506.6	21.76	24.282		
4,300.0	4,270.4	4,242.1	4,210.3	12.0	12.3	121.72	333.2	-329.8	547.4	525.1	22.39	24.454		
4,400.0	4,369.2	4,340.2	4,307.2	12.4	12.6	121.94	344.1	-340.4	566.6	543.5	23.02	24.616		
4,500.0	4,468.0	4,438.3	4,404.2	12.7	13.0	122.15	355.0	-350.9	585.7	562.0	23.65	24.769		
4,600.0	4,566.8	4,536.5	4,501.2	13.1	13.3	122.34	365.9	-361.4	604.8	580.5	24.28	24.913		
4,700.0	4,665.6	4,634.6	4,598.1	13.5	13.7	122.53	376.8	-372.0	623.9	599.0	24.91	25.049		
4,800.0	4,764.4	4,732.7	4,695.1	13.8	14.0	122.70	387.7	-382.5	643.1	617.5	25.54	25.178		
4,897.6	4,860.9	4,828.5	4,789.7	14.2	14.4	122.86	398.3	-392.8	661.8	635.6	26.16	25.297		
4,900.0	4,863.3	4,830.9	4,792.0	14.2	14.4	122.87	398.6	-393.1	662.2	636.0	26.18	25.300		
5,000.0	4,962.3	4,929.2	4,889.2	14.5	14.7	123.20	409.5	-403.6	680.4	653.6	26.77	25.416		
5,100.0	5,061.8	5,027.8	4,986.6	14.7	15.1	123.25	420.4	-414.2	696.7	669.3	27.33	25.488		
5,200.0	5,161.6	5,132.3	5,089.9	14.9	15.5	123.02	431.9	-425.3	711.0	683.1	27.86	25.517		
5,300.0	5,261.6	5,252.9	5,209.6	15.1	15.8	122.61	442.5	-435.6	721.3	693.0	28.33	25.461		
5,338.4	5,300.0	5,299.6	5,256.1	15.1	15.9	0.59	445.6	-438.6	724.0	697.1	26.92	26.898		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)												Offset Well Error:	0.0 ft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,400.0	5,361.6	5,374.6	5,330.8	15.2	16.0	0.29	449.5	-442.4	727.2	700.0	27.17	26.761	
5,500.0	5,461.6	5,496.8	5,452.9	15.4	16.2	0.03	452.8	-445.6	729.9	702.3	27.57	26.478	
5,600.0	5,561.6	5,605.4	5,561.6	15.5	16.4	0.01	453.1	-445.8	730.1	702.2	27.92	26.151	
5,700.0	5,661.6	5,705.4	5,661.6	15.7	16.6	0.01	453.1	-445.8	730.1	701.8	28.28	25.819	
5,800.0	5,761.6	5,805.4	5,761.6	15.8	16.7	0.01	453.1	-445.8	730.1	701.5	28.64	25.492	
5,843.2	5,804.7	5,848.6	5,804.7	15.9	16.8	0.01	453.1	-445.8	730.1	701.3	28.80	25.353	
5,850.0	5,811.6	5,855.4	5,811.6	15.9	16.8	-89.99	453.1	-445.8	730.1	699.8	30.30	24.093	
5,859.8	5,821.4	5,865.2	5,821.4	15.9	16.8	-90.00	453.1	-445.8	730.1	699.8	30.33	24.069	
5,900.0	5,861.5	5,905.3	5,861.5	16.0	16.9	-90.15	453.1	-445.8	730.1	699.7	30.45	23.974	
5,950.0	5,911.2	5,955.4	5,911.5	16.0	17.0	-90.50	453.1	-444.9	730.1	699.6	30.57	23.888	
6,000.0	5,960.5	6,005.7	5,961.7	16.0	17.0	-90.85	453.1	-440.7	730.2	699.6	30.62	23.843	
6,050.0	6,009.0	6,056.4	6,011.8	16.0	17.0	-91.20	453.1	-433.2	730.3	699.6	30.64	23.830	
6,100.0	6,056.7	6,107.4	6,061.6	16.0	17.1	-91.54	453.1	-422.3	730.4	699.8	30.63	23.845	
6,150.0	6,103.4	6,158.7	6,110.8	16.0	17.0	-91.88	453.1	-408.1	730.5	699.9	30.59	23.880	
6,200.0	6,148.7	6,210.2	6,159.3	15.9	17.0	-92.21	453.1	-390.4	730.7	700.1	30.54	23.928	
6,250.0	6,192.6	6,262.1	6,206.7	15.9	17.0	-92.53	453.1	-369.4	730.8	700.4	30.48	23.979	
6,300.0	6,234.8	6,314.3	6,252.9	15.8	16.9	-92.84	453.1	-345.0	731.0	700.6	30.43	24.019	
6,350.0	6,275.2	6,366.8	6,297.5	15.8	16.9	-93.14	453.1	-317.4	731.2	700.8	30.42	24.035	
6,400.0	6,313.5	6,419.6	6,340.4	15.8	16.8	-93.43	453.1	-286.6	731.4	701.0	30.47	24.008	
6,450.0	6,349.7	6,472.6	6,381.2	15.8	16.8	-93.70	453.1	-252.8	731.7	701.1	30.59	23.921	
6,500.0	6,383.6	6,526.0	6,419.8	15.8	16.8	-93.96	453.1	-216.0	731.9	701.1	30.81	23.755	
6,550.0	6,414.9	6,579.5	6,455.9	15.9	16.8	-94.20	453.1	-176.4	732.1	700.9	31.16	23.495	
6,600.0	6,443.7	6,633.3	6,489.2	16.1	16.8	-94.42	453.1	-134.2	732.3	700.6	31.66	23.131	
6,650.0	6,469.7	6,687.3	6,519.6	16.3	16.8	-94.62	453.1	-89.6	732.5	700.2	32.33	22.659	
6,700.0	6,492.9	6,741.6	6,546.9	16.7	17.0	-94.80	453.1	-42.8	732.7	699.5	33.18	22.085	
6,750.0	6,513.1	6,796.0	6,570.9	17.2	17.4	-94.95	453.1	6.1	732.9	698.6	34.21	21.420	
6,800.0	6,530.3	6,850.5	6,591.4	17.7	17.9	-95.09	453.1	56.6	733.0	697.6	35.44	20.683	
6,850.0	6,544.4	6,905.2	6,608.2	18.4	18.7	-95.19	453.1	108.6	733.1	696.3	36.85	19.892	
6,900.0	6,555.3	6,960.0	6,621.4	19.2	19.5	-95.28	453.1	161.8	733.2	694.8	38.43	19.078	
6,950.0	6,563.0	7,014.9	6,630.7	20.0	20.4	-95.34	453.1	215.9	733.3	693.1	40.16	18.260	
7,000.0	6,567.5	7,069.8	6,636.0	20.9	21.4	-95.38	453.1	270.5	733.3	691.3	42.01	17.457	
7,050.8	6,568.6	7,125.4	6,637.5	21.9	22.4	-95.39	453.1	326.1	733.4	689.4	43.98	16.674	
7,100.0	6,568.2	7,174.6	6,637.1	22.8	23.4	-95.40	453.1	375.3	733.4	687.5	45.91	15.974	
7,200.0	6,567.2	7,274.6	6,636.4	24.9	25.5	-95.42	453.1	475.3	733.4	683.3	50.05	14.653	
7,300.0	6,566.2	7,374.6	6,635.6	27.1	27.7	-95.43	453.1	575.3	733.4	679.0	54.45	13.470	
7,400.0	6,565.2	7,474.6	6,634.9	29.4	30.0	-95.45	453.1	675.3	733.4	674.4	59.05	12.421	
7,500.0	6,564.2	7,574.6	6,634.1	31.8	32.4	-95.47	453.1	775.3	733.5	669.6	63.80	11.495	
7,600.0	6,563.2	7,674.6	6,633.4	34.3	34.9	-95.49	453.1	875.3	733.5	664.8	68.69	10.678	
7,700.0	6,562.2	7,774.6	6,632.6	36.8	37.4	-95.51	453.1	975.3	733.5	659.8	73.67	9.956	
7,800.0	6,561.2	7,874.6	6,631.9	39.4	39.9	-95.53	453.1	1,075.3	733.5	654.8	78.74	9.316	
7,900.0	6,560.2	7,974.6	6,631.1	42.0	42.5	-95.55	453.1	1,175.3	733.5	649.7	83.87	8.746	
8,000.0	6,559.2	8,074.6	6,630.4	44.6	45.1	-95.57	453.1	1,275.3	733.6	644.5	89.06	8.237	
8,100.0	6,558.2	8,174.6	6,629.6	47.2	47.7	-95.59	453.1	1,375.3	733.6	639.3	94.30	7.780	
8,200.0	6,557.2	8,274.6	6,628.9	49.9	50.3	-95.61	453.1	1,475.3	733.6	634.0	99.57	7.368	
8,300.0	6,556.2	8,374.6	6,628.1	52.5	53.0	-95.62	453.1	1,575.2	733.6	628.8	104.87	6.996	
8,400.0	6,555.2	8,474.6	6,627.4	55.2	55.7	-95.64	453.1	1,675.2	733.7	623.5	110.21	6.657	
8,500.0	6,554.2	8,574.6	6,626.6	57.9	58.4	-95.66	453.1	1,775.2	733.7	618.1	115.56	6.349	
8,600.0	6,553.2	8,674.6	6,625.9	60.6	61.1	-95.68	453.1	1,875.2	733.7	612.8	120.94	6.067	
8,700.0	6,552.2	8,774.6	6,625.1	63.3	63.8	-95.70	453.1	1,975.2	733.7	607.4	126.34	5.808	
8,800.0	6,551.2	8,874.6	6,624.4	66.0	66.5	-95.72	453.1	2,075.2	733.8	602.0	131.75	5.569	
8,900.0	6,550.2	8,974.6	6,623.6	68.8	69.2	-95.74	453.1	2,175.2	733.8	596.6	137.17	5.349	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)												Offset Well Error:	0.0 ft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9,000.0	6,549.2	9,074.6	6,622.9	71.5	72.0	-95.76	453.1	2,275.2	733.8	591.2	142.61	5.146	
9,100.0	6,548.3	9,174.6	6,622.1	74.2	74.7	-95.78	453.1	2,375.2	733.8	585.8	148.06	4.956	
9,200.0	6,547.3	9,274.6	6,621.4	77.0	77.4	-95.80	453.1	2,475.2	733.9	580.3	153.52	4.780	
9,300.0	6,546.3	9,374.6	6,620.6	79.7	80.2	-95.81	453.1	2,575.2	733.9	574.9	158.98	4.616	
9,400.0	6,545.3	9,474.6	6,619.9	82.5	82.9	-95.83	453.1	2,675.2	733.9	569.4	164.46	4.463	
9,500.0	6,544.3	9,574.6	6,619.1	85.3	85.7	-95.85	453.1	2,775.2	733.9	564.0	169.94	4.319	
9,600.0	6,543.3	9,674.6	6,618.4	88.0	88.4	-95.87	453.1	2,875.2	733.9	558.5	175.43	4.184	
9,700.0	6,542.3	9,774.6	6,617.6	90.8	91.2	-95.89	453.1	2,975.2	734.0	553.1	180.92	4.057	
9,800.0	6,541.3	9,874.6	6,616.9	93.5	94.0	-95.91	453.1	3,075.2	734.0	547.6	186.42	3.937	
9,900.0	6,540.3	9,974.6	6,616.1	96.3	96.7	-95.93	453.1	3,175.2	734.0	542.1	191.92	3.825	
10,000.0	6,539.3	10,074.6	6,615.4	99.1	99.5	-95.95	453.1	3,275.2	734.0	536.6	197.43	3.718	
10,100.0	6,538.3	10,174.6	6,614.6	101.9	102.3	-95.97	453.1	3,375.2	734.1	531.1	202.94	3.617	
10,200.0	6,537.3	10,274.6	6,613.9	104.6	105.0	-95.99	453.1	3,475.2	734.1	525.6	208.45	3.522	
10,300.0	6,536.3	10,374.6	6,613.1	107.4	107.8	-96.00	453.1	3,575.2	734.1	520.2	213.97	3.431	
10,400.0	6,535.3	10,474.6	6,612.4	110.2	110.6	-96.02	453.1	3,675.2	734.1	514.7	219.49	3.345	
10,500.0	6,534.3	10,574.6	6,611.6	113.0	113.4	-96.04	453.1	3,775.2	734.2	509.2	225.01	3.263	
10,600.0	6,533.3	10,674.6	6,610.9	115.8	116.2	-96.06	453.1	3,875.2	734.2	503.7	230.54	3.185	
10,700.0	6,532.3	10,774.6	6,610.1	118.5	118.9	-96.08	453.1	3,975.2	734.2	498.2	236.07	3.110	
10,800.0	6,531.3	10,874.6	6,609.4	121.3	121.7	-96.10	453.1	4,075.2	734.2	492.7	241.60	3.039	
10,900.0	6,530.3	10,974.6	6,608.6	124.1	124.5	-96.12	453.1	4,175.2	734.3	487.1	247.13	2.971	
11,000.0	6,529.4	11,074.6	6,607.9	126.9	127.3	-96.14	453.1	4,275.2	734.3	481.6	252.66	2.906	
11,100.0	6,528.4	11,174.6	6,607.1	129.7	130.1	-96.16	453.1	4,375.2	734.3	476.1	258.20	2.844	
11,200.0	6,527.4	11,274.6	6,606.4	132.5	132.9	-96.17	453.1	4,475.2	734.4	470.6	263.74	2.784	
11,300.0	6,526.4	11,374.6	6,605.6	135.3	135.6	-96.19	453.1	4,575.2	734.4	465.1	269.27	2.727	
11,400.0	6,525.4	11,474.6	6,604.9	138.0	138.4	-96.21	453.1	4,675.2	734.4	459.6	274.81	2.672	
11,500.0	6,524.4	11,574.6	6,604.1	140.8	141.2	-96.23	453.1	4,775.1	734.4	454.1	280.35	2.620	
11,600.0	6,523.4	11,674.6	6,603.4	143.6	144.0	-96.25	453.1	4,875.1	734.5	448.6	285.90	2.569	
11,700.0	6,522.4	11,774.6	6,602.6	146.4	146.8	-96.27	453.1	4,975.1	734.5	443.0	291.44	2.520	
11,800.0	6,521.4	11,874.6	6,601.8	149.2	149.6	-96.29	453.1	5,075.1	734.5	437.5	296.98	2.473	
11,900.0	6,520.4	11,974.6	6,601.1	152.0	152.4	-96.31	453.1	5,175.1	734.5	432.0	302.53	2.428	
12,000.0	6,519.4	12,074.6	6,600.3	154.8	155.2	-96.33	453.1	5,275.1	734.6	426.5	308.07	2.384	
12,100.0	6,518.4	12,174.6	6,599.6	157.6	158.0	-96.35	453.1	5,375.1	734.6	421.0	313.62	2.342	
12,200.0	6,517.4	12,274.6	6,598.8	160.4	160.8	-96.36	453.1	5,475.1	734.6	415.4	319.16	2.302	
12,300.0	6,516.4	12,374.6	6,598.1	163.2	163.6	-96.38	453.1	5,575.1	734.6	409.9	324.71	2.262	
12,400.0	6,515.4	12,474.6	6,597.3	166.0	166.4	-96.40	453.1	5,675.1	734.7	404.4	330.26	2.225	
12,500.0	6,514.4	12,574.6	6,596.6	168.8	169.2	-96.42	453.1	5,775.1	734.7	398.9	335.80	2.188	
12,600.0	6,513.4	12,674.6	6,595.8	171.6	172.0	-96.44	453.1	5,875.1	734.7	393.4	341.35	2.152	
12,700.0	6,512.4	12,774.6	6,595.1	174.4	174.8	-96.46	453.1	5,975.1	734.7	387.8	346.90	2.118	
12,800.0	6,511.4	12,874.6	6,594.3	177.2	177.6	-96.48	453.1	6,075.1	734.8	382.3	352.45	2.085	
12,900.0	6,510.5	12,974.6	6,593.6	180.0	180.3	-96.50	453.1	6,175.1	734.8	376.8	358.00	2.053	
13,000.0	6,509.5	13,074.6	6,592.8	182.8	183.1	-96.52	453.1	6,275.1	734.8	371.3	363.55	2.021	
13,100.0	6,508.5	13,174.6	6,592.1	185.6	185.9	-96.53	453.1	6,375.1	734.9	365.8	369.10	1.991	
13,200.0	6,507.5	13,274.6	6,591.3	188.4	188.7	-96.55	453.1	6,475.1	734.9	360.2	374.65	1.962	
13,300.0	6,506.5	13,374.6	6,590.6	191.2	191.5	-96.57	453.1	6,575.1	734.9	354.7	380.20	1.933	
13,400.0	6,505.5	13,474.6	6,589.8	194.0	194.3	-96.59	453.1	6,675.1	734.9	349.2	385.75	1.905	
13,500.0	6,504.5	13,574.6	6,589.1	196.8	197.1	-96.61	453.1	6,775.1	735.0	343.7	391.30	1.878	
13,600.0	6,503.5	13,674.6	6,588.3	199.6	199.9	-96.63	453.1	6,875.1	735.0	338.1	396.85	1.852	
13,624.2	6,503.2	13,698.8	6,588.2	200.2	200.6	-96.63	453.1	6,899.3	735.0	336.8	398.19	1.846	
13,649.0	6,503.0	13,720.0	6,588.0	200.9	201.2	-96.64	453.1	6,920.5	735.0	335.5	399.47	1.840 SF	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)												Offset Well Error:	0.0 ft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-50.68	18.9	-23.1	29.9				
100.0	100.0	100.0	100.0	0.1	0.1	-50.68	18.9	-23.1	29.9	29.7	0.22	133.008	
200.0	200.0	200.0	200.0	0.3	0.3	-50.68	18.9	-23.1	29.9	29.2	0.67	44.336	
300.0	300.0	300.0	300.0	0.6	0.6	-50.68	18.9	-23.1	29.9	28.8	1.12	26.602	
400.0	400.0	400.0	400.0	0.8	0.8	-50.68	18.9	-23.1	29.9	28.3	1.57	19.001	
500.0	500.0	500.0	500.0	1.0	1.0	-50.68	18.9	-23.1	29.9	27.9	2.02	14.779	
600.0	600.0	600.0	600.0	1.2	1.2	-50.68	18.9	-23.1	29.9	27.4	2.47	12.092	
700.0	700.0	700.0	700.0	1.5	1.5	-50.68	18.9	-23.1	29.9	27.0	2.92	10.231	
800.0	800.0	800.0	800.0	1.7	1.7	-50.68	18.9	-23.1	29.9	26.5	3.37	8.867	
900.0	900.0	900.0	900.0	1.9	1.9	-50.68	18.9	-23.1	29.9	26.1	3.82	7.824	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-50.68	18.9	-23.1	29.9	25.6	4.27	7.000	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-50.68	18.9	-23.1	29.9	25.2	4.72	6.334	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-50.68	18.9	-23.1	29.9	24.7	5.17	5.783	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-50.68	18.9	-23.1	29.9	24.3	5.62	5.320	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-50.68	18.9	-23.1	29.9	23.8	6.07	4.926	
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.3	73.58	18.9	-23.1	29.5	23.0	6.50	4.541	
1,600.0	1,599.9	1,599.9	1,599.9	3.4	3.5	81.14	18.9	-23.1	28.6	21.7	6.91	4.146	
1,636.4	1,636.3	1,636.1	1,636.1	3.5	3.6	85.14	19.0	-23.2	28.5	21.4	7.06	4.036	CC, ES
1,700.0	1,699.7	1,699.3	1,699.3	3.6	3.7	93.06	19.2	-23.9	29.0	21.7	7.32	3.964	
1,800.0	1,799.3	1,798.7	1,798.6	3.8	3.9	106.20	20.1	-26.4	32.3	24.6	7.73	4.176	
1,900.0	1,898.6	1,897.9	1,897.8	4.1	4.1	117.56	21.5	-30.4	38.9	30.7	8.16	4.763	
1,987.8	1,985.5	1,984.9	1,984.6	4.3	4.3	125.08	23.2	-35.3	47.2	38.6	8.54	5.524	
2,000.0	1,997.5	1,997.0	1,996.7	4.3	4.3	125.94	23.5	-36.1	48.5	39.9	8.59	5.642	
2,100.0	2,096.4	2,096.1	2,095.4	4.6	4.6	130.64	26.1	-43.4	59.8	50.7	9.05	6.606	
2,200.0	2,195.2	2,195.2	2,194.1	4.9	4.8	132.47	29.2	-52.2	71.5	62.0	9.52	7.513	
2,300.0	2,294.0	2,294.2	2,292.5	5.2	5.0	132.61	32.9	-62.7	83.6	73.6	10.02	8.343	
2,400.0	2,392.8	2,393.2	2,390.7	5.5	5.3	131.69	37.2	-74.8	95.9	85.4	10.55	9.094	
2,500.0	2,491.6	2,492.2	2,488.6	5.8	5.6	130.12	42.0	-88.4	108.6	97.5	11.10	9.777	
2,600.0	2,590.4	2,591.3	2,586.6	6.1	5.8	128.67	47.0	-102.5	121.3	109.7	11.68	10.391	
2,700.0	2,689.3	2,690.4	2,684.6	6.4	6.1	127.50	51.9	-116.5	134.2	121.9	12.26	10.942	
2,800.0	2,788.1	2,789.6	2,782.6	6.7	6.4	126.53	56.9	-130.6	147.1	134.2	12.86	11.436	
2,900.0	2,886.9	2,888.7	2,880.6	7.1	6.7	125.72	61.8	-144.6	160.0	146.6	13.47	11.881	
3,000.0	2,985.7	2,987.9	2,978.6	7.4	7.0	125.03	66.8	-158.7	173.0	158.9	14.09	12.282	
3,100.0	3,084.5	3,087.0	3,076.6	7.8	7.4	124.43	71.8	-172.7	186.0	171.3	14.71	12.644	
3,200.0	3,183.4	3,186.1	3,174.7	8.1	7.7	123.91	76.7	-186.8	199.0	183.6	15.34	12.974	
3,300.0	3,282.2	3,285.3	3,272.7	8.5	8.0	123.46	81.7	-200.8	212.0	196.0	15.97	13.273	
3,400.0	3,381.0	3,384.4	3,370.7	8.8	8.3	123.06	86.6	-214.9	225.0	208.4	16.61	13.546	
3,500.0	3,479.8	3,483.5	3,468.7	9.2	8.6	122.70	91.6	-229.0	238.0	220.8	17.25	13.796	
3,600.0	3,578.6	3,582.7	3,566.7	9.5	9.0	122.38	96.6	-243.0	251.1	233.2	17.90	14.026	
3,700.0	3,677.4	3,681.8	3,664.7	9.9	9.3	122.09	101.5	-257.1	264.1	245.6	18.55	14.237	
3,800.0	3,776.3	3,781.0	3,762.7	10.2	9.6	121.83	106.5	-271.1	277.2	258.0	19.21	14.432	
3,900.0	3,875.1	3,880.1	3,860.7	10.6	10.0	121.60	111.4	-285.2	290.3	270.4	19.86	14.613	
4,000.0	3,973.9	3,979.2	3,958.7	10.9	10.3	121.38	116.4	-299.2	303.3	282.8	20.52	14.780	
4,100.0	4,072.7	4,078.4	4,056.7	11.3	10.7	121.18	121.3	-313.3	316.4	295.2	21.18	14.935	
4,200.0	4,171.5	4,177.5	4,154.8	11.7	11.0	121.00	126.3	-327.3	329.5	307.6	21.85	15.080	
4,300.0	4,270.4	4,276.6	4,252.8	12.0	11.3	120.83	131.3	-341.4	342.5	320.0	22.51	15.215	
4,400.0	4,369.2	4,375.8	4,350.8	12.4	11.7	120.67	136.2	-355.4	355.6	332.4	23.18	15.341	
4,500.0	4,468.0	4,474.9	4,448.8	12.7	12.0	120.52	141.2	-369.5	368.7	344.8	23.85	15.459	
4,600.0	4,566.8	4,574.0	4,546.8	13.1	12.4	120.39	146.1	-383.5	381.8	357.3	24.52	15.570	
4,700.0	4,665.6	4,673.2	4,644.8	13.5	12.7	120.26	151.1	-397.6	394.9	369.7	25.19	15.674	
4,800.0	4,764.4	4,772.3	4,742.8	13.8	13.1	120.14	156.1	-411.6	407.9	382.1	25.86	15.773	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)													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		
4,897.6	4,860.9	4,872.9	4,842.4	14.2	13.4	120.15	160.8	-425.0	420.4	393.9	26.49	15.870		
4,900.0	4,863.3	4,875.4	4,844.9	14.2	13.4	120.16	160.9	-425.3	420.7	394.2	26.51	15.872		
5,000.0	4,962.3	4,980.3	4,949.2	14.5	13.6	120.60	164.6	-435.8	431.3	404.3	27.01	15.966		
5,100.0	5,061.8	5,085.5	5,054.1	14.7	13.8	121.02	167.0	-442.6	438.9	411.4	27.45	15.986		
5,200.0	5,161.6	5,190.9	5,159.5	14.9	14.0	121.45	168.1	-445.9	443.4	415.6	27.83	15.931		
5,300.0	5,261.6	5,293.0	5,261.6	15.1	14.2	121.80	168.2	-446.1	445.1	416.9	28.16	15.805		
5,338.4	5,300.0	5,331.4	5,300.0	15.1	14.3	-0.02	168.2	-446.1	445.2	420.4	24.86	17.911		
5,400.0	5,361.6	5,393.0	5,361.6	15.2	14.4	-0.02	168.2	-446.1	445.2	420.1	25.10	17.742		
5,500.0	5,461.6	5,493.0	5,461.6	15.4	14.5	-0.02	168.2	-446.1	445.2	419.8	25.48	17.476		
5,600.0	5,561.6	5,593.0	5,561.6	15.5	14.7	-0.02	168.2	-446.1	445.2	419.4	25.86	17.217		
5,700.0	5,661.6	5,693.0	5,661.6	15.7	14.9	-0.02	168.2	-446.1	445.2	419.0	26.25	16.964		
5,800.0	5,761.6	5,793.0	5,761.6	15.8	15.1	-0.02	168.2	-446.1	445.2	418.6	26.64	16.716		
5,843.2	5,804.7	5,836.2	5,804.7	15.9	15.2	-0.02	168.2	-446.1	445.2	418.4	26.80	16.612		
5,850.0	5,811.6	5,843.0	5,811.6	15.9	15.2	-90.02	168.2	-446.1	445.2	415.2	30.08	14.802		
5,900.0	5,861.5	5,893.0	5,861.5	16.0	15.2	-90.01	168.2	-444.0	445.2	415.0	30.20	14.741		
5,950.0	5,911.2	5,943.0	5,911.2	16.0	15.3	-90.00	168.2	-438.6	445.2	415.0	30.28	14.703		
6,000.0	5,960.5	5,993.0	5,960.5	16.0	15.3	-90.00	168.2	-429.9	445.2	414.9	30.32	14.685		
6,050.0	6,009.0	6,043.0	6,009.0	16.0	15.3	-89.99	168.2	-418.1	445.2	414.9	30.32	14.685		
6,100.0	6,056.7	6,093.0	6,056.7	16.0	15.3	-89.98	168.2	-403.1	445.2	415.0	30.29	14.698		
6,150.0	6,103.4	6,143.0	6,103.3	16.0	15.3	-89.98	168.2	-385.0	445.2	415.0	30.25	14.721		
6,200.0	6,148.7	6,193.0	6,148.6	15.9	15.3	-89.97	168.2	-364.0	445.2	415.0	30.19	14.746		
6,250.0	6,192.6	6,243.0	6,192.5	15.9	15.2	-89.96	168.2	-340.0	445.2	415.1	30.15	14.768		
6,300.0	6,234.8	6,292.9	6,234.6	15.8	15.2	-89.96	168.2	-313.2	445.2	415.1	30.13	14.777		
6,350.0	6,275.2	6,342.9	6,275.0	15.8	15.2	-89.95	168.2	-283.7	445.2	415.1	30.15	14.765		
6,400.0	6,313.5	6,392.9	6,313.3	15.8	15.3	-89.95	168.2	-251.6	445.2	415.0	30.25	14.721		
6,450.0	6,349.7	6,442.9	6,349.4	15.8	15.4	-89.94	168.2	-217.1	445.2	414.8	30.43	14.634		
6,500.0	6,383.6	6,492.8	6,383.2	15.8	15.5	-89.94	168.2	-180.3	445.2	414.5	30.72	14.496		
6,550.0	6,414.9	6,542.8	6,414.5	15.9	15.7	-89.93	168.2	-141.4	445.2	414.1	31.14	14.299		
6,600.0	6,443.7	6,592.8	6,443.2	16.1	16.0	-89.93	168.2	-100.5	445.2	413.5	31.71	14.041		
6,650.0	6,469.7	6,642.7	6,469.2	16.3	16.4	-89.92	168.2	-57.8	445.2	412.8	32.45	13.722		
6,700.0	6,492.9	6,692.7	6,492.3	16.7	16.8	-89.92	168.2	-13.5	445.2	411.9	33.35	13.349		
6,750.0	6,513.1	6,742.6	6,512.5	17.2	17.4	-89.91	168.2	32.2	445.2	410.8	34.44	12.929		
6,800.0	6,530.3	6,792.6	6,529.6	17.7	18.0	-89.91	168.2	79.1	445.2	409.6	35.69	12.475		
6,850.0	6,544.4	6,842.5	6,543.7	18.4	18.7	-89.91	168.2	127.0	445.2	408.1	37.10	12.000		
6,900.0	6,555.3	6,892.5	6,554.6	19.2	19.5	-89.91	168.2	175.7	445.2	406.6	38.66	11.516		
6,950.0	6,563.0	6,942.4	6,562.3	20.0	20.3	-89.90	168.2	225.1	445.2	404.9	40.35	11.035		
7,000.0	6,567.5	6,992.4	6,566.7	20.9	21.3	-89.90	168.2	274.8	445.2	403.1	42.14	10.565		
7,050.8	6,568.6	7,043.1	6,567.9	21.9	22.2	-89.90	168.2	325.5	445.2	401.2	44.06	10.106		
7,100.0	6,568.2	7,092.3	6,567.4	22.8	23.2	-89.91	168.2	374.8	445.2	399.2	46.00	9.680		
7,200.0	6,567.2	7,192.3	6,566.5	24.9	25.3	-89.92	168.2	474.8	445.2	395.1	50.17	8.874		
7,300.0	6,566.2	7,292.3	6,565.6	27.1	27.5	-89.93	168.2	574.8	445.2	390.6	54.61	8.154		
7,400.0	6,565.2	7,392.3	6,564.7	29.4	29.8	-89.94	168.2	674.7	445.2	386.0	59.24	7.516		
7,500.0	6,564.2	7,492.3	6,563.8	31.8	32.2	-89.95	168.2	774.7	445.2	381.2	64.04	6.953		
7,600.0	6,563.2	7,592.3	6,562.9	34.3	34.7	-89.96	168.2	874.7	445.2	376.3	68.95	6.457		
7,700.0	6,562.2	7,692.3	6,562.0	36.8	37.2	-89.97	168.2	974.7	445.2	371.3	73.97	6.019		
7,800.0	6,561.2	7,792.3	6,561.1	39.4	39.7	-89.98	168.2	1,074.7	445.2	366.2	79.07	5.631		
7,900.0	6,560.2	7,892.3	6,560.2	42.0	42.3	-90.00	168.2	1,174.7	445.2	361.0	84.24	5.285		
8,000.0	6,559.2	7,992.3	6,559.3	44.6	44.9	-90.01	168.2	1,274.7	445.2	355.8	89.46	4.977		
8,100.0	6,558.2	8,092.3	6,558.3	47.2	47.6	-90.02	168.2	1,374.7	445.2	350.5	94.72	4.700		
8,200.0	6,557.2	8,192.3	6,557.4	49.9	50.2	-90.03	168.2	1,474.7	445.2	345.2	100.03	4.451		
8,300.0	6,556.2	8,292.3	6,556.5	52.5	52.9	-90.04	168.2	1,574.7	445.2	339.9	105.37	4.226		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)													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	6,555.2	8,392.3	6,555.6	55.2	55.6	-90.05	168.2	1,674.7	445.2	334.5	110.73	4.021		
8,500.0	6,554.2	8,492.3	6,554.7	57.9	58.3	-90.06	168.2	1,774.7	445.2	329.1	116.12	3.834		
8,600.0	6,553.2	8,592.3	6,553.8	60.6	61.0	-90.07	168.2	1,874.7	445.2	323.7	121.53	3.663		
8,700.0	6,552.2	8,692.3	6,552.9	63.3	63.7	-90.09	168.2	1,974.7	445.2	318.3	126.96	3.507		
8,800.0	6,551.2	8,792.3	6,552.0	66.0	66.4	-90.10	168.2	2,074.7	445.2	312.8	132.40	3.363		
8,900.0	6,550.2	8,892.3	6,551.1	68.8	69.1	-90.11	168.2	2,174.7	445.2	307.4	137.86	3.229		
9,000.0	6,549.2	8,992.3	6,550.2	71.5	71.9	-90.12	168.2	2,274.7	445.2	301.9	143.33	3.106		
9,100.0	6,548.3	9,092.3	6,549.3	74.2	74.6	-90.13	168.2	2,374.7	445.2	296.4	148.82	2.992		
9,200.0	6,547.3	9,192.3	6,548.4	77.0	77.4	-90.14	168.2	2,474.7	445.2	290.9	154.31	2.885		
9,300.0	6,546.3	9,292.3	6,547.5	79.7	80.1	-90.15	168.2	2,574.7	445.2	285.4	159.81	2.786		
9,400.0	6,545.3	9,392.3	6,546.5	82.5	82.9	-90.16	168.2	2,674.7	445.2	279.9	165.32	2.693		
9,500.0	6,544.3	9,492.3	6,545.6	85.3	85.6	-90.18	168.2	2,774.7	445.2	274.4	170.83	2.606		
9,600.0	6,543.3	9,592.3	6,544.7	88.0	88.4	-90.19	168.2	2,874.7	445.2	268.9	176.36	2.525		
9,700.0	6,542.3	9,692.3	6,543.8	90.8	91.1	-90.20	168.2	2,974.7	445.2	263.3	181.88	2.448		
9,800.0	6,541.3	9,792.3	6,542.9	93.5	93.9	-90.21	168.2	3,074.6	445.2	257.8	187.42	2.376		
9,900.0	6,540.3	9,892.3	6,542.0	96.3	96.7	-90.22	168.2	3,174.6	445.2	252.3	192.96	2.307		
10,000.0	6,539.3	9,992.3	6,541.1	99.1	99.4	-90.23	168.2	3,274.6	445.2	246.7	198.50	2.243		
10,100.0	6,538.3	10,092.3	6,540.2	101.9	102.2	-90.24	168.2	3,374.6	445.2	241.2	204.05	2.182		
10,200.0	6,537.3	10,192.3	6,539.3	104.6	105.0	-90.25	168.2	3,474.6	445.2	235.6	209.60	2.124		
10,300.0	6,536.3	10,292.3	6,538.4	107.4	107.8	-90.27	168.2	3,574.6	445.2	230.1	215.15	2.069		
10,400.0	6,535.3	10,392.3	6,537.5	110.2	110.6	-90.28	168.2	3,674.6	445.2	224.5	220.71	2.017		
10,500.0	6,534.3	10,492.3	6,536.6	113.0	113.3	-90.29	168.2	3,774.6	445.2	218.9	226.27	1.968		
10,600.0	6,533.3	10,592.3	6,535.7	115.8	116.1	-90.30	168.2	3,874.6	445.2	213.4	231.84	1.920		
10,700.0	6,532.3	10,692.3	6,534.7	118.5	118.9	-90.31	168.2	3,974.6	445.2	207.8	237.40	1.875		
10,800.0	6,531.3	10,792.3	6,533.8	121.3	121.7	-90.32	168.2	4,074.6	445.2	202.2	242.97	1.832		
10,900.0	6,530.3	10,892.3	6,532.9	124.1	124.5	-90.33	168.2	4,174.6	445.2	196.7	248.54	1.791		
11,000.0	6,529.4	10,992.3	6,532.0	126.9	127.3	-90.34	168.2	4,274.6	445.2	191.1	254.11	1.752		
11,100.0	6,528.4	11,092.3	6,531.1	129.7	130.0	-90.36	168.2	4,374.6	445.2	185.5	259.69	1.714		
11,200.0	6,527.4	11,192.3	6,530.2	132.5	132.8	-90.37	168.2	4,474.6	445.2	179.9	265.27	1.678		
11,300.0	6,526.4	11,292.3	6,529.3	135.3	135.6	-90.38	168.2	4,574.6	445.2	174.4	270.84	1.644		
11,400.0	6,525.4	11,392.3	6,528.4	138.0	138.4	-90.39	168.2	4,674.6	445.2	168.8	276.43	1.611		
11,500.0	6,524.4	11,492.3	6,527.5	140.8	141.2	-90.40	168.2	4,774.6	445.2	163.2	282.01	1.579		
11,600.0	6,523.4	11,592.3	6,526.6	143.6	144.0	-90.41	168.2	4,874.6	445.2	157.6	287.59	1.548		
11,700.0	6,522.4	11,692.3	6,525.7	146.4	146.8	-90.42	168.2	4,974.6	445.2	152.0	293.17	1.519		
11,800.0	6,521.4	11,792.3	6,524.8	149.2	149.6	-90.43	168.2	5,074.6	445.2	146.5	298.76	1.490 Level 3		
11,900.0	6,520.4	11,892.3	6,523.9	152.0	152.4	-90.44	168.2	5,174.6	445.2	140.9	304.35	1.463 Level 3		
12,000.0	6,519.4	11,992.3	6,522.9	154.8	155.2	-90.46	168.2	5,274.6	445.2	135.3	309.94	1.436 Level 3		
12,100.0	6,518.4	12,092.3	6,522.0	157.6	158.0	-90.47	168.2	5,374.6	445.2	129.7	315.52	1.411 Level 3		
12,200.0	6,517.4	12,192.3	6,521.1	160.4	160.8	-90.48	168.2	5,474.5	445.2	124.1	321.11	1.386 Level 3		
12,300.0	6,516.4	12,292.3	6,520.2	163.2	163.6	-90.49	168.2	5,574.5	445.2	118.5	326.71	1.363 Level 3		
12,400.0	6,515.4	12,392.3	6,519.3	166.0	166.3	-90.50	168.2	5,674.5	445.2	112.9	332.30	1.340 Level 3		
12,500.0	6,514.4	12,492.3	6,518.4	168.8	169.1	-90.51	168.2	5,774.5	445.2	107.3	337.89	1.318 Level 3		
12,530.9	6,514.1	12,523.3	6,518.1	169.6	170.0	-90.52	168.2	5,805.4	445.2	105.6	339.62	1.311 Level 3		
12,600.0	6,513.4	12,592.3	6,517.5	171.6	171.9	-90.52	168.2	5,874.5	445.2	101.7	343.48	1.296 Level 3		
12,700.0	6,512.4	12,692.3	6,516.6	174.4	174.7	-90.53	168.2	5,974.5	445.2	96.1	349.08	1.275 Level 3		
12,800.0	6,511.4	12,792.3	6,515.7	177.2	177.5	-90.55	168.2	6,074.5	445.2	90.5	354.67	1.255 Level 3		
12,900.0	6,510.5	12,892.3	6,514.8	180.0	180.3	-90.56	168.2	6,174.5	445.2	84.9	360.27	1.236 Level 2		
13,000.0	6,509.5	12,992.3	6,513.9	182.8	183.1	-90.57	168.2	6,274.5	445.2	79.3	365.87	1.217 Level 2		
13,100.0	6,508.5	13,092.3	6,513.0	185.6	185.9	-90.58	168.2	6,374.5	445.2	73.7	371.46	1.199 Level 2		
13,200.0	6,507.5	13,192.3	6,512.1	188.4	188.7	-90.59	168.2	6,474.5	445.2	68.2	377.06	1.181 Level 2		
13,300.0	6,506.5	13,292.3	6,511.2	191.2	191.5	-90.60	168.2	6,574.5	445.2	62.6	382.66	1.163 Level 2		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
13,400.0	6,505.5	13,392.3	6,510.2	194.0	194.3	-90.61	168.2	6,674.5	445.2	57.0	388.26	1.147	Level 2	
13,500.0	6,504.5	13,492.3	6,509.3	196.8	197.1	-90.62	168.2	6,774.5	445.2	51.4	393.86	1.130	Level 2	
13,600.0	6,503.5	13,592.3	6,508.4	199.6	199.9	-90.64	168.2	6,874.5	445.2	45.8	399.46	1.115	Level 2	
13,626.5	6,503.2	13,618.8	6,508.2	200.3	200.7	-90.64	168.2	6,901.0	445.2	44.3	400.94	1.110	Level 2	
13,649.0	6,503.0	13,639.5	6,508.0	200.9	201.3	-90.64	168.2	6,921.7	445.2	43.1	402.15	1.107	Level 2, SF	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis 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	-51.00	9.5	-11.7	15.1	15.1	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	-51.00	9.5	-11.7	15.1	14.8	0.22	66.996		
200.0	200.0	200.0	200.0	0.3	0.3	-51.00	9.5	-11.7	15.1	14.4	0.67	22.332		
300.0	300.0	300.0	300.0	0.6	0.6	-51.00	9.5	-11.7	15.1	13.9	1.12	13.399		
400.0	400.0	400.0	400.0	0.8	0.8	-51.00	9.5	-11.7	15.1	13.5	1.57	9.571		
500.0	500.0	500.0	500.0	1.0	1.0	-51.00	9.5	-11.7	15.1	13.0	2.02	7.444		
600.0	600.0	600.0	600.0	1.2	1.2	-51.00	9.5	-11.7	15.1	12.6	2.47	6.091		
700.0	700.0	700.0	700.0	1.5	1.5	-51.00	9.5	-11.7	15.1	12.1	2.92	5.154		
800.0	800.0	800.0	800.0	1.7	1.7	-51.00	9.5	-11.7	15.1	11.7	3.37	4.466		
900.0	900.0	900.0	900.0	1.9	1.9	-51.00	9.5	-11.7	15.1	11.2	3.82	3.941		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-51.00	9.5	-11.7	15.1	10.8	4.27	3.526		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-51.00	9.5	-11.7	15.1	10.3	4.72	3.190		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-51.00	9.5	-11.7	15.1	9.9	5.17	2.913		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-51.00	9.5	-11.7	15.1	9.4	5.62	2.680		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-51.00	9.5	-11.7	15.1	9.0	6.07	2.481		
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.3	75.68	9.5	-11.7	14.7	8.2	6.50	2.260		
1,594.3	1,594.2	1,594.2	1,594.2	3.4	3.5	90.00	9.5	-11.7	14.2	7.3	6.88	2.066 CC		
1,600.0	1,599.9	1,599.9	1,599.9	3.4	3.5	91.18	9.5	-11.7	14.2	7.3	6.91	2.059		
1,700.0	1,699.7	1,699.7	1,699.7	3.6	3.7	115.59	9.5	-11.7	15.8	8.5	7.33	2.154		
1,800.0	1,799.3	1,799.3	1,799.3	3.8	3.9	138.18	9.5	-11.7	21.4	13.7	7.74	2.764		
1,900.0	1,898.6	1,898.6	1,898.6	4.1	4.2	152.65	9.5	-11.7	31.2	23.0	8.14	3.828		
1,987.8	1,985.5	1,985.5	1,985.5	4.3	4.4	160.30	9.5	-11.7	42.6	34.1	8.49	5.020		
2,000.0	1,997.5	1,997.5	1,997.5	4.3	4.4	161.11	9.5	-11.7	44.4	35.9	8.55	5.196		
2,100.0	2,096.4	2,097.2	2,097.2	4.6	4.6	165.47	9.3	-12.5	58.5	49.5	8.96	6.529		
2,200.0	2,195.2	2,197.2	2,197.2	4.9	4.8	167.34	8.9	-15.0	71.3	62.0	9.36	7.621		
2,300.0	2,294.0	2,297.7	2,297.5	5.2	5.0	167.97	8.2	-19.3	82.8	73.0	9.77	8.471		
2,400.0	2,392.8	2,398.5	2,398.1	5.5	5.2	167.83	7.2	-25.4	92.8	82.6	10.19	9.101		
2,500.0	2,491.6	2,499.5	2,498.9	5.8	5.4	167.15	5.9	-33.2	101.4	90.7	10.63	9.536		
2,600.0	2,590.4	2,600.7	2,599.6	6.1	5.6	166.03	4.2	-42.7	108.5	97.4	11.08	9.797		
2,700.0	2,689.3	2,702.1	2,700.3	6.4	5.9	164.50	2.3	-54.1	114.3	102.8	11.54	9.906		
2,800.0	2,788.1	2,803.5	2,800.9	6.7	6.1	162.58	0.1	-67.2	118.8	106.8	12.02	9.883		
2,900.0	2,886.9	2,903.5	2,899.8	7.1	6.4	160.52	-2.2	-81.1	122.7	110.1	12.52	9.799		
3,000.0	2,985.7	3,003.3	2,998.7	7.4	6.6	158.59	-4.6	-94.9	126.7	113.6	13.03	9.721		
3,100.0	3,084.5	3,103.1	3,097.5	7.8	6.9	156.78	-6.9	-108.8	130.8	117.3	13.56	9.648		
3,200.0	3,183.4	3,203.0	3,196.3	8.1	7.2	155.08	-9.3	-122.7	135.1	121.0	14.10	9.580		
3,300.0	3,282.2	3,302.8	3,295.2	8.5	7.5	153.49	-11.6	-136.6	139.5	124.8	14.65	9.517		
3,400.0	3,381.0	3,402.6	3,394.0	8.8	7.8	151.99	-14.0	-150.4	143.9	128.7	15.22	9.457		
3,500.0	3,479.8	3,502.5	3,492.8	9.2	8.1	150.59	-16.3	-164.3	148.5	132.7	15.80	9.400		
3,600.0	3,578.6	3,602.3	3,591.7	9.5	8.4	149.27	-18.6	-178.2	153.2	136.8	16.39	9.347		
3,700.0	3,677.4	3,702.1	3,690.5	9.9	8.7	148.03	-21.0	-192.1	157.9	140.9	16.98	9.296		
3,800.0	3,776.3	3,802.0	3,789.4	10.2	9.0	146.86	-23.3	-205.9	162.7	145.1	17.59	9.248		
3,900.0	3,875.1	3,901.8	3,888.2	10.6	9.3	145.76	-25.7	-219.8	167.6	149.3	18.21	9.203		
4,000.0	3,973.9	4,001.6	3,987.0	10.9	9.6	144.72	-28.0	-233.7	172.5	153.6	18.83	9.161		
4,100.0	4,072.7	4,101.4	4,085.9	11.3	9.9	143.74	-30.4	-247.6	177.5	158.0	19.46	9.120		
4,200.0	4,171.5	4,201.3	4,184.7	11.7	10.3	142.81	-32.7	-261.4	182.5	162.4	20.09	9.082		
4,300.0	4,270.4	4,301.1	4,283.5	12.0	10.6	141.93	-35.0	-275.3	187.5	166.8	20.73	9.046		
4,400.0	4,369.2	4,400.9	4,382.4	12.4	10.9	141.10	-37.4	-289.2	192.7	171.3	21.38	9.012		
4,500.0	4,468.0	4,500.8	4,481.2	12.7	11.2	140.31	-39.7	-303.1	197.8	175.8	22.03	8.980		
4,600.0	4,566.8	4,600.6	4,580.0	13.1	11.6	139.57	-42.1	-317.0	203.0	180.3	22.68	8.949		
4,700.0	4,665.6	4,700.4	4,678.9	13.5	11.9	138.86	-44.4	-330.8	208.2	184.9	23.34	8.921		
4,800.0	4,764.4	4,800.3	4,777.7	13.8	12.2	138.18	-46.8	-344.7	213.5	189.5	24.00	8.893		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design													Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)		Offset Site Error:		0.0 ft
Survey Program: 0-MWD														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning				
4,897.6	4,860.9	4,897.7	4,874.1	14.2	12.6	137.55	-49.1	-358.2	218.6	194.0	24.65	8.868					
4,900.0	4,863.3	4,900.1	4,876.5	14.2	12.6	137.54	-49.1	-358.6	218.7	194.1	24.67	8.868					
5,000.0	4,962.3	4,999.9	4,975.4	14.5	12.9	136.66	-51.5	-372.5	222.7	197.4	25.32	8.797					
5,100.0	5,061.8	5,099.8	5,074.2	14.7	13.2	135.16	-53.8	-386.3	224.3	198.3	25.99	8.628					
5,200.0	5,161.6	5,199.4	5,172.8	14.9	13.6	133.01	-56.1	-400.2	223.6	196.9	26.69	8.377					
5,300.0	5,261.6	5,298.7	5,271.2	15.1	13.9	130.15	-58.5	-414.0	220.9	193.5	27.40	8.061					
5,338.4	5,300.0	5,336.6	5,308.6	15.1	14.0	7.01	-59.4	-419.2	219.5	194.3	25.19	8.713					
5,400.0	5,361.6	5,396.4	5,368.0	15.2	14.2	5.11	-60.6	-426.7	217.3	192.1	25.27	8.601					
5,500.0	5,461.6	5,494.2	5,465.3	15.4	14.4	2.61	-62.2	-436.2	215.0	189.6	25.44	8.452					
5,600.0	5,561.6	5,592.5	5,563.4	15.5	14.6	0.94	-63.3	-442.5	213.8	188.1	25.68	8.323					
5,700.0	5,661.6	5,691.2	5,662.0	15.7	14.8	0.15	-63.8	-445.5	213.2	187.2	25.99	8.204					
5,754.0	5,715.6	5,744.7	5,715.6	15.8	14.9	0.08	-63.8	-445.7	213.2	187.0	26.19	8.141					
5,800.0	5,761.6	5,790.7	5,761.6	15.8	15.0	0.08	-63.8	-445.7	213.2	186.8	26.36	8.087					
5,843.2	5,804.7	5,833.9	5,804.7	15.9	15.0	0.08	-63.8	-445.7	213.2	186.7	26.52	8.037					
5,850.0	5,811.6	5,840.7	5,811.6	15.9	15.0	-89.93	-63.8	-445.7	213.2	183.1	30.05	7.094					
5,864.4	5,826.0	5,855.1	5,826.0	15.9	15.1	-90.00	-63.8	-445.7	213.2	183.1	30.10	7.083					
5,900.0	5,861.5	5,890.7	5,861.5	16.0	15.1	-90.49	-63.8	-445.7	213.2	183.0	30.23	7.051					
5,950.0	5,911.2	5,940.7	5,911.5	16.0	15.2	-91.68	-63.8	-444.8	213.3	182.9	30.42	7.012					
6,000.0	5,960.5	5,991.0	5,961.7	16.0	15.3	-92.89	-63.8	-440.7	213.4	182.9	30.54	6.988					
6,050.0	6,009.0	6,041.7	6,011.8	16.0	15.3	-94.09	-63.8	-433.2	213.7	183.1	30.62	6.980					
6,100.0	6,056.7	6,092.7	6,061.6	16.0	15.3	-95.28	-63.8	-422.4	214.1	183.4	30.65	6.985					
6,150.0	6,103.4	6,143.9	6,110.9	16.0	15.3	-96.44	-63.8	-408.2	214.5	183.9	30.64	7.001					
6,200.0	6,148.7	6,195.5	6,159.3	15.9	15.3	-97.57	-63.8	-390.6	215.1	184.5	30.60	7.028					
6,250.0	6,192.6	6,247.4	6,206.8	15.9	15.2	-98.67	-63.8	-369.6	215.7	185.1	30.53	7.063					
6,300.0	6,234.8	6,299.6	6,253.0	15.8	15.2	-99.73	-63.8	-345.3	216.3	185.8	30.46	7.101					
6,350.0	6,275.2	6,352.1	6,297.7	15.8	15.2	-100.74	-63.8	-317.7	217.0	186.6	30.40	7.138					
6,400.0	6,313.5	6,404.9	6,340.6	15.8	15.2	-101.70	-63.8	-287.0	217.7	187.3	30.37	7.168					
6,450.0	6,349.7	6,458.0	6,381.4	15.8	15.3	-102.61	-63.8	-253.1	218.5	188.1	30.40	7.186					
6,500.0	6,383.6	6,511.4	6,420.1	15.8	15.4	-103.45	-63.8	-216.4	219.2	188.7	30.51	7.185					
6,550.0	6,414.9	6,565.0	6,456.2	15.9	15.5	-104.24	-63.8	-176.8	220.0	189.2	30.73	7.158					
6,600.0	6,443.7	6,618.8	6,489.6	16.1	15.8	-104.96	-63.8	-134.6	220.7	189.6	31.09	7.099					
6,650.0	6,469.7	6,672.9	6,520.1	16.3	16.1	-105.61	-63.8	-90.0	221.4	189.8	31.60	7.005					
6,700.0	6,492.9	6,727.1	6,547.4	16.7	16.5	-106.18	-63.8	-43.1	222.0	189.7	32.29	6.875					
6,750.0	6,513.1	6,781.6	6,571.5	17.2	17.0	-106.69	-63.8	5.8	222.6	189.4	33.16	6.711					
6,800.0	6,530.3	6,836.2	6,592.0	17.7	17.7	-107.12	-63.8	56.3	223.1	188.8	34.23	6.516					
6,850.0	6,544.4	6,890.9	6,608.9	18.4	18.4	-107.47	-63.8	108.4	223.5	188.0	35.49	6.296					
6,900.0	6,555.3	6,945.8	6,622.1	19.2	19.2	-107.74	-63.8	161.6	223.8	186.9	36.93	6.060					
6,950.0	6,563.0	7,000.7	6,631.4	20.0	20.1	-107.94	-63.8	215.7	224.1	185.5	38.54	5.814					
7,000.0	6,567.5	7,055.7	6,636.8	20.9	21.1	-108.05	-63.8	270.4	224.2	183.9	40.29	5.564					
7,050.8	6,568.6	7,111.4	6,638.3	21.9	22.1	-108.09	-63.8	326.1	224.3	182.1	42.20	5.314					
7,100.0	6,568.2	7,160.6	6,637.9	22.8	23.1	-108.11	-63.8	375.3	224.3	180.2	44.05	5.091					
7,200.0	6,567.2	7,260.6	6,637.0	24.9	25.2	-108.14	-63.8	475.3	224.3	176.3	48.02	4.671					
7,300.0	6,566.2	7,360.6	6,636.2	27.1	27.4	-108.18	-63.8	575.3	224.4	172.1	52.23	4.296					
7,400.0	6,565.2	7,460.6	6,635.3	29.4	29.7	-108.22	-63.8	675.3	224.4	167.8	56.64	3.963					
7,500.0	6,564.2	7,560.6	6,634.5	31.8	32.1	-108.26	-63.8	775.3	224.5	163.3	61.19	3.669					
7,600.0	6,563.2	7,660.6	6,633.7	34.3	34.6	-108.30	-63.8	875.3	224.5	158.7	65.85	3.409					
7,700.0	6,562.2	7,760.6	6,632.8	36.8	37.1	-108.34	-63.8	975.3	224.6	154.0	70.62	3.180					
7,800.0	6,561.2	7,860.6	6,632.0	39.4	39.6	-108.37	-63.8	1,075.3	224.6	149.2	75.45	2.977					
7,900.0	6,560.2	7,960.6	6,631.1	42.0	42.2	-108.41	-63.8	1,175.3	224.7	144.3	80.35	2.796					
8,000.0	6,559.2	8,060.6	6,630.3	44.6	44.8	-108.45	-63.8	1,275.3	224.7	139.4	85.30	2.634					
8,100.0	6,558.2	8,160.6	6,629.5	47.2	47.4	-108.49	-63.8	1,375.3	224.8	134.5	90.29	2.489					

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)												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	
8,200.0	6,557.2	8,260.6	6,628.6	49.9	50.1	-108.53	-63.8	1,475.3	224.8	129.5	95.32	2.359	
8,300.0	6,556.2	8,360.6	6,627.8	52.5	52.8	-108.56	-63.8	1,575.3	224.9	124.5	100.37	2.240	
8,400.0	6,555.2	8,460.6	6,627.0	55.2	55.4	-108.60	-63.8	1,675.3	224.9	119.5	105.45	2.133	
8,500.0	6,554.2	8,560.6	6,626.1	57.9	58.1	-108.64	-63.8	1,775.3	225.0	114.4	110.55	2.035	
8,600.0	6,553.2	8,660.6	6,625.3	60.6	60.8	-108.68	-63.8	1,875.3	225.0	109.3	115.67	1.945	
8,700.0	6,552.2	8,760.6	6,624.4	63.3	63.5	-108.72	-63.8	1,975.3	225.1	104.3	120.80	1.863	
8,800.0	6,551.2	8,860.6	6,623.6	66.0	66.3	-108.75	-63.8	2,075.3	225.1	99.2	125.95	1.787	
8,900.0	6,550.2	8,960.6	6,622.8	68.8	69.0	-108.79	-63.8	2,175.3	225.2	94.0	131.11	1.717	
9,000.0	6,549.2	9,060.6	6,621.9	71.5	71.7	-108.83	-63.8	2,275.3	225.2	88.9	136.28	1.653	
9,100.0	6,548.3	9,160.6	6,621.1	74.2	74.5	-108.87	-63.8	2,375.3	225.3	83.8	141.45	1.592	
9,200.0	6,547.3	9,260.6	6,620.3	77.0	77.2	-108.91	-63.8	2,475.3	225.3	78.7	146.64	1.537	
9,300.0	6,546.3	9,360.6	6,619.4	79.7	80.0	-108.94	-63.8	2,575.3	225.4	73.5	151.82	1.484	Level 3
9,400.0	6,545.3	9,460.6	6,618.6	82.5	82.7	-108.98	-63.8	2,675.3	225.4	68.4	157.02	1.436	Level 3
9,500.0	6,544.3	9,560.6	6,617.7	85.3	85.5	-109.02	-63.8	2,775.3	225.5	63.2	162.22	1.390	Level 3
9,600.0	6,543.3	9,660.6	6,616.9	88.0	88.2	-109.06	-63.8	2,875.3	225.5	58.1	167.42	1.347	Level 3
9,700.0	6,542.3	9,760.6	6,616.1	90.8	91.0	-109.09	-63.8	2,975.3	225.6	52.9	172.63	1.307	Level 3
9,800.0	6,541.3	9,860.6	6,615.2	93.5	93.8	-109.13	-63.8	3,075.3	225.6	47.8	177.84	1.269	Level 3
9,900.0	6,540.3	9,960.6	6,614.4	96.3	96.5	-109.17	-63.8	3,175.2	225.7	42.6	183.05	1.233	Level 2
10,000.0	6,539.3	10,060.6	6,613.6	99.1	99.3	-109.21	-63.8	3,275.2	225.7	37.4	188.26	1.199	Level 2
10,100.0	6,538.3	10,160.6	6,612.7	101.9	102.1	-109.25	-63.8	3,375.2	225.8	32.3	193.48	1.167	Level 2
10,200.0	6,537.3	10,260.6	6,611.9	104.6	104.9	-109.28	-63.8	3,475.2	225.8	27.1	198.70	1.136	Level 2
10,300.0	6,536.3	10,360.6	6,611.0	107.4	107.6	-109.32	-63.8	3,575.2	225.9	22.0	203.91	1.108	Level 2
10,400.0	6,535.3	10,460.6	6,610.2	110.2	110.4	-109.36	-63.8	3,675.2	225.9	16.8	209.13	1.080	Level 2
10,500.0	6,534.3	10,560.6	6,609.4	113.0	113.2	-109.40	-63.8	3,775.2	226.0	11.6	214.35	1.054	Level 2
10,600.0	6,533.3	10,660.6	6,608.5	115.8	116.0	-109.43	-63.9	3,875.2	226.0	6.4	219.57	1.029	Level 2
10,700.0	6,532.3	10,760.6	6,607.7	118.5	118.8	-109.47	-63.9	3,975.2	226.1	1.3	224.79	1.006	Level 2
10,800.0	6,531.3	10,860.6	6,606.9	121.3	121.5	-109.51	-63.9	4,075.2	226.1	-3.9	230.01	0.983	Level 1
10,900.0	6,530.3	10,960.6	6,606.0	124.1	124.3	-109.55	-63.9	4,175.2	226.2	-9.1	235.23	0.961	Level 1
11,000.0	6,529.4	11,060.6	6,605.2	126.9	127.1	-109.58	-63.9	4,275.2	226.2	-14.2	240.45	0.941	Level 1
11,100.0	6,528.4	11,160.6	6,604.3	129.7	129.9	-109.62	-63.9	4,375.2	226.3	-19.4	245.67	0.921	Level 1
11,200.0	6,527.4	11,260.6	6,603.5	132.5	132.7	-109.66	-63.9	4,475.2	226.3	-24.6	250.89	0.902	Level 1
11,300.0	6,526.4	11,360.6	6,602.7	135.3	135.5	-109.70	-63.9	4,575.2	226.4	-29.7	256.11	0.884	Level 1
11,400.0	6,525.4	11,460.6	6,601.8	138.0	138.3	-109.73	-63.9	4,675.2	226.4	-34.9	261.32	0.866	Level 1
11,500.0	6,524.4	11,560.6	6,601.0	140.8	141.1	-109.77	-63.9	4,775.2	226.5	-40.1	266.54	0.850	Level 1
11,600.0	6,523.4	11,660.6	6,600.2	143.6	143.8	-109.81	-63.9	4,875.2	226.5	-45.2	271.76	0.834	Level 1
11,700.0	6,522.4	11,760.6	6,599.3	146.4	146.6	-109.85	-63.9	4,975.2	226.6	-50.4	276.97	0.818	Level 1
11,800.0	6,521.4	11,860.6	6,598.5	149.2	149.4	-109.88	-63.9	5,075.2	226.6	-55.5	282.18	0.803	Level 1
11,900.0	6,520.4	11,960.6	6,597.6	152.0	152.2	-109.92	-63.9	5,175.2	226.7	-60.7	287.39	0.789	Level 1
12,000.0	6,519.4	12,060.6	6,596.8	154.8	155.0	-109.96	-63.9	5,275.2	226.8	-65.9	292.60	0.775	Level 1
12,100.0	6,518.4	12,160.6	6,596.0	157.6	157.8	-110.00	-63.9	5,375.2	226.8	-71.0	297.81	0.762	Level 1
12,200.0	6,517.4	12,260.6	6,595.1	160.4	160.6	-110.03	-63.9	5,475.2	226.9	-76.2	303.02	0.749	Level 1
12,300.0	6,516.4	12,360.6	6,594.3	163.2	163.4	-110.07	-63.9	5,575.2	226.9	-81.3	308.23	0.736	Level 1
12,400.0	6,515.4	12,460.6	6,593.5	166.0	166.2	-110.11	-63.9	5,675.2	227.0	-86.5	313.43	0.724	Level 1
12,500.0	6,514.4	12,560.6	6,592.6	168.8	169.0	-110.15	-63.9	5,775.2	227.0	-91.6	318.63	0.712	Level 1
12,600.0	6,513.4	12,660.6	6,591.8	171.6	171.8	-110.18	-63.9	5,875.1	227.1	-96.8	323.84	0.701	Level 1
12,700.0	6,512.4	12,760.6	6,590.9	174.4	174.6	-110.22	-63.9	5,975.1	227.1	-101.9	329.04	0.690	Level 1
12,800.0	6,511.4	12,860.6	6,590.1	177.2	177.4	-110.26	-63.9	6,075.1	227.2	-107.1	334.23	0.680	Level 1
12,900.0	6,510.5	12,960.6	6,589.3	180.0	180.2	-110.29	-63.9	6,175.1	227.2	-112.2	339.43	0.669	Level 1
13,000.0	6,509.5	13,060.6	6,588.4	182.8	183.0	-110.33	-63.9	6,275.1	227.3	-117.3	344.62	0.660	Level 1
13,100.0	6,508.5	13,160.6	6,587.6	185.6	185.8	-110.37	-63.9	6,375.1	227.3	-122.5	349.82	0.650	Level 1
13,200.0	6,507.5	13,260.6	6,586.7	188.4	188.6	-110.41	-63.9	6,475.1	227.4	-127.6	355.01	0.641	Level 1

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
13,300.0	6,506.5	13,360.6	6,585.9	191.2	191.4	-110.44	-63.9	6,575.1	227.4	-132.7	360.20	0.631	Level 1	
13,400.0	6,505.5	13,460.6	6,585.1	194.0	194.2	-110.48	-63.9	6,675.1	227.5	-137.9	365.38	0.623	Level 1	
13,500.0	6,504.5	13,560.6	6,584.2	196.8	197.0	-110.52	-63.9	6,775.1	227.6	-143.0	370.57	0.614	Level 1	
13,600.0	6,503.5	13,660.6	6,583.4	199.6	199.8	-110.55	-63.9	6,875.1	227.6	-148.1	375.75	0.606	Level 1	
13,624.4	6,503.2	13,685.0	6,583.2	200.3	200.5	-110.56	-63.9	6,899.5	227.6	-149.4	377.02	0.604	Level 1	
13,649.0	6,503.0	13,708.1	6,583.0	200.9	201.1	-110.57	-63.9	6,922.6	227.6	-150.6	378.25	0.602	Level 1, ES, SF	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	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		
7,500.0	6,564.2	6,544.2	6,544.2	31.8	130.9	-90.62	393.9	1,499.1	987.3	824.6	162.71	6.068		
7,600.0	6,563.2	6,543.2	6,543.2	34.3	130.9	-90.53	393.9	1,499.1	916.4	751.3	165.15	5.549		
7,700.0	6,562.2	6,542.2	6,542.2	36.8	130.8	-90.45	393.9	1,499.1	851.5	683.8	167.64	5.079		
7,800.0	6,561.2	6,541.2	6,541.2	39.4	130.8	-90.36	393.9	1,499.1	793.8	623.6	170.17	4.665		
7,900.0	6,560.2	6,540.2	6,540.2	42.0	130.8	-90.28	393.9	1,499.1	745.2	572.4	172.73	4.314		
8,000.0	6,559.2	6,539.2	6,539.2	44.6	130.8	-90.19	393.9	1,499.1	707.4	532.1	175.32	4.035		
8,100.0	6,558.2	6,538.2	6,538.2	47.2	130.8	-90.11	393.9	1,499.1	682.3	504.4	177.93	3.835		
8,200.0	6,557.2	6,537.2	6,537.2	49.9	130.7	-90.02	393.9	1,499.1	671.3	490.7	180.57	3.718		
8,224.4	6,557.0	6,537.0	6,537.0	50.5	130.7	-90.00	393.9	1,499.1	670.9	489.7	181.21	3.702 CC, ES		
8,300.0	6,556.2	6,536.2	6,536.2	52.5	130.7	-89.94	393.9	1,499.1	675.1	491.9	183.21	3.685 SF		
8,400.0	6,555.2	6,535.2	6,535.2	55.2	130.7	-89.85	393.9	1,499.1	693.5	507.6	185.87	3.731		
8,500.0	6,554.2	6,534.2	6,534.2	57.9	130.7	-89.77	393.9	1,499.1	725.3	536.7	188.55	3.847		
8,600.0	6,553.2	6,533.2	6,533.2	60.6	130.7	-89.68	393.9	1,499.1	768.9	577.6	191.23	4.021		
8,700.0	6,552.2	6,532.2	6,532.2	63.3	130.6	-89.60	393.9	1,499.1	822.4	628.4	193.92	4.241		
8,800.0	6,551.2	6,531.2	6,531.2	66.0	130.6	-89.51	393.9	1,499.1	884.0	687.3	196.62	4.496		
8,900.0	6,550.2	6,530.2	6,530.2	68.8	130.6	-89.43	393.9	1,499.1	952.1	752.8	199.33	4.777		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 6865-UNKNOWN												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
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	24.76	415.0	191.4	457.3				
100.0	100.0	82.0	82.0	0.1	1.6	24.76	415.0	191.4	457.0	455.2	1.75	260.744	
200.0	200.0	182.0	182.0	0.3	3.6	24.76	415.0	191.4	457.0	453.0	3.98	114.895	
300.0	300.0	282.0	282.0	0.6	5.6	24.76	415.0	191.4	457.0	450.8	6.20	73.681	
400.0	400.0	382.0	382.0	0.8	7.6	24.76	415.0	191.4	457.0	448.5	8.43	54.228	
500.0	500.0	482.0	482.0	1.0	9.6	24.76	415.0	191.4	457.0	446.3	10.65	42.902	
600.0	600.0	582.0	582.0	1.2	11.6	24.76	415.0	191.4	457.0	444.1	12.88	35.489	
700.0	700.0	682.0	682.0	1.5	13.6	24.76	415.0	191.4	457.0	441.9	15.10	30.261	
800.0	800.0	782.0	782.0	1.7	15.6	24.76	415.0	191.4	457.0	439.6	17.33	26.375	
900.0	900.0	882.0	882.0	1.9	17.6	24.76	415.0	191.4	457.0	437.4	19.55	23.374	
1,000.0	1,000.0	982.0	982.0	2.1	19.6	24.76	415.0	191.4	457.0	435.2	21.78	20.986	
1,100.0	1,100.0	1,082.0	1,082.0	2.4	21.6	24.76	415.0	191.4	457.0	433.0	24.00	19.040	
1,200.0	1,200.0	1,182.0	1,182.0	2.6	23.6	24.76	415.0	191.4	457.0	430.8	26.22	17.425	
1,300.0	1,300.0	1,282.0	1,282.0	2.8	25.6	24.76	415.0	191.4	457.0	428.5	28.45	16.063	
1,400.0	1,400.0	1,382.0	1,382.0	3.0	27.6	24.76	415.0	191.4	457.0	426.3	30.67	14.898 CC	
1,500.0	1,500.0	1,482.0	1,482.0	3.2	29.6	146.69	415.0	191.4	458.1	425.2	32.87	13.936 ES	
1,600.0	1,599.9	1,581.9	1,581.9	3.4	31.6	146.93	415.0	191.4	461.4	426.3	35.03	13.170	
1,700.0	1,699.7	1,681.7	1,681.7	3.6	33.6	147.32	415.0	191.4	466.9	429.7	37.17	12.559	
1,800.0	1,799.3	1,781.3	1,781.3	3.8	35.6	147.86	415.0	191.4	474.6	435.3	39.29	12.078	
1,900.0	1,898.6	1,880.6	1,880.6	4.1	37.6	148.52	415.0	191.4	484.6	443.2	41.39	11.709	
1,987.8	1,985.5	1,967.5	1,967.5	4.3	39.4	149.18	415.0	191.4	495.3	452.1	43.20	11.465	
2,000.0	1,997.5	1,979.5	1,979.5	4.3	39.6	149.29	415.0	191.4	496.9	453.4	43.46	11.432	
2,100.0	2,096.4	2,078.4	2,078.4	4.6	41.6	150.17	415.0	191.4	510.2	464.5	45.64	11.178	
2,200.0	2,195.2	2,177.2	2,177.2	4.9	43.5	151.00	415.0	191.4	523.6	475.7	47.82	10.949	
2,300.0	2,294.0	2,276.0	2,276.0	5.2	45.5	151.79	415.0	191.4	537.1	487.1	50.00	10.740	
2,400.0	2,392.8	2,374.8	2,374.8	5.5	47.5	152.55	415.0	191.4	550.7	498.5	52.19	10.551	
2,500.0	2,491.6	2,473.6	2,473.6	5.8	49.5	153.26	415.0	191.4	564.3	510.0	54.38	10.378	
2,600.0	2,590.4	2,572.4	2,572.4	6.1	51.4	153.94	415.0	191.4	578.1	521.5	56.57	10.219	
2,700.0	2,689.3	2,671.3	2,671.3	6.4	53.4	154.59	415.0	191.4	591.9	533.2	58.76	10.073	
2,800.0	2,788.1	2,770.1	2,770.1	6.7	55.4	155.21	415.0	191.4	605.8	544.9	60.96	9.939	
2,900.0	2,886.9	2,868.9	2,868.9	7.1	57.4	155.81	415.0	191.4	619.8	556.7	63.15	9.815	
3,000.0	2,985.7	2,967.7	2,967.7	7.4	59.4	156.37	415.0	191.4	633.9	568.5	65.34	9.701	
3,100.0	3,084.5	3,066.5	3,066.5	7.8	61.3	156.92	415.0	191.4	648.0	580.4	67.54	9.594	
3,200.0	3,183.4	3,165.4	3,165.4	8.1	63.3	157.44	415.0	191.4	662.1	592.4	69.73	9.495	
3,300.0	3,282.2	3,264.2	3,264.2	8.5	65.3	157.93	415.0	191.4	676.3	604.4	71.93	9.403	
3,400.0	3,381.0	3,363.0	3,363.0	8.8	67.3	158.41	415.0	191.4	690.6	616.5	74.12	9.317	
3,500.0	3,479.8	3,461.8	3,461.8	9.2	69.2	158.87	415.0	191.4	704.9	628.6	76.32	9.236	
3,600.0	3,578.6	3,560.6	3,560.6	9.5	71.2	159.31	415.0	191.4	719.2	640.7	78.52	9.160	
3,700.0	3,677.4	3,659.4	3,659.4	9.9	73.2	159.73	415.0	191.4	733.6	652.9	80.71	9.089	
3,800.0	3,776.3	3,758.3	3,758.3	10.2	75.2	160.14	415.0	191.4	748.0	665.1	82.91	9.022	
3,900.0	3,875.1	3,857.1	3,857.1	10.6	77.1	160.53	415.0	191.4	762.5	677.4	85.10	8.959	
4,000.0	3,973.9	3,955.9	3,955.9	10.9	79.1	160.90	415.0	191.4	777.0	689.7	87.30	8.900	
4,100.0	4,072.7	4,054.7	4,054.7	11.3	81.1	161.27	415.0	191.4	791.5	702.0	89.50	8.844	
4,200.0	4,171.5	4,153.5	4,153.5	11.7	83.1	161.62	415.0	191.4	806.0	714.3	91.69	8.790	
4,300.0	4,270.4	4,252.4	4,252.4	12.0	85.0	161.95	415.0	191.4	820.6	726.7	93.89	8.740	
4,400.0	4,369.2	4,351.2	4,351.2	12.4	87.0	162.28	415.0	191.4	835.2	739.1	96.09	8.692	
4,500.0	4,468.0	4,450.0	4,450.0	12.7	89.0	162.59	415.0	191.4	849.8	751.5	98.28	8.647	
4,600.0	4,566.8	4,548.8	4,548.8	13.1	91.0	162.90	415.0	191.4	864.5	764.0	100.48	8.604	
4,700.0	4,665.6	4,647.6	4,647.6	13.5	93.0	163.19	415.0	191.4	879.2	776.5	102.68	8.563	
4,800.0	4,764.4	4,746.4	4,746.4	13.8	94.9	163.47	415.0	191.4	893.9	789.0	104.87	8.523	
4,897.6	4,860.9	4,842.9	4,842.9	14.2	96.9	163.74	415.0	191.4	908.2	801.2	107.02	8.487	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design		Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1											Offset Site Error:		0.0 ft	
Survey Program:		6865-UNKNOWN											Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	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)					
4,900.0	4,863.3	4,845.3	4,845.3	14.2	96.9	163.75	415.0	191.4	908.6	801.5	107.08	8.485				
5,000.0	4,962.3	4,944.3	4,944.3	14.5	98.9	164.06	415.0	191.4	921.6	811.9	109.68	8.402				
5,100.0	5,061.8	5,043.8	5,043.8	14.7	100.9	164.28	415.0	191.4	931.2	819.1	112.18	8.301				
5,200.0	5,161.6	5,143.6	5,143.6	14.9	102.9	164.42	415.0	191.4	937.6	823.0	114.57	8.184				
5,300.0	5,261.6	5,243.6	5,243.6	15.1	104.9	164.49	415.0	191.4	940.6	823.7	116.83	8.051				
5,338.4	5,300.0	5,282.0	5,282.0	15.1	105.6	42.65	415.0	191.4	940.8	820.2	120.55	7.804				
5,400.0	5,361.6	5,343.6	5,343.6	15.2	106.9	42.65	415.0	191.4	940.8	818.9	121.88	7.719				
5,500.0	5,461.6	5,443.6	5,443.6	15.4	108.9	42.65	415.0	191.4	940.8	816.8	124.03	7.585				
5,600.0	5,561.6	5,543.6	5,543.6	15.5	110.9	42.65	415.0	191.4	940.8	814.6	126.19	7.455				
5,700.0	5,661.6	5,643.6	5,643.6	15.7	112.9	42.65	415.0	191.4	940.8	812.5	128.35	7.330				
5,800.0	5,761.6	5,743.6	5,743.6	15.8	114.9	42.65	415.0	191.4	940.8	810.3	130.51	7.209				
5,843.2	5,804.7	5,786.7	5,786.7	15.9	115.7	42.65	415.0	191.4	940.8	809.4	131.44	7.157				
5,850.0	5,811.6	5,793.6	5,793.6	15.9	115.9	-47.35	415.0	191.4	940.8	811.9	128.87	7.300				
5,900.0	5,861.5	5,843.5	5,843.5	16.0	116.9	-47.52	415.0	191.4	939.4	809.6	129.75	7.240				
5,950.0	5,911.2	5,893.2	5,893.2	16.0	117.9	-47.96	415.0	191.4	935.8	805.4	130.38	7.177				
6,000.0	5,960.5	5,942.5	5,942.5	16.0	118.8	-48.68	415.0	191.4	930.0	799.2	130.78	7.111				
6,050.0	6,009.0	5,991.0	5,991.0	16.0	119.8	-49.67	415.0	191.4	922.2	791.2	131.00	7.039				
6,100.0	6,056.7	6,038.7	6,038.7	16.0	120.8	-50.95	415.0	191.4	912.4	781.3	131.10	6.959				
6,150.0	6,103.4	6,085.4	6,085.4	16.0	121.7	-52.51	415.0	191.4	900.7	769.6	131.16	6.867				
6,200.0	6,148.7	6,130.7	6,130.7	15.9	122.6	-54.36	415.0	191.4	887.4	756.1	131.28	6.760				
6,250.0	6,192.6	6,174.6	6,174.6	15.9	123.5	-56.50	415.0	191.4	872.6	741.1	131.55	6.633				
6,300.0	6,234.8	6,216.8	6,216.8	15.8	124.3	-58.91	415.0	191.4	856.6	724.5	132.07	6.486				
6,350.0	6,275.2	6,257.2	6,257.2	15.8	125.1	-61.57	415.0	191.4	839.5	706.6	132.91	6.316				
6,400.0	6,313.5	6,295.5	6,295.5	15.8	125.9	-64.46	415.0	191.4	821.8	687.7	134.11	6.128				
6,450.0	6,349.7	6,331.7	6,331.7	15.8	126.6	-67.51	415.0	191.4	803.7	668.1	135.64	5.925				
6,500.0	6,383.6	6,365.6	6,365.6	15.8	127.3	-70.67	415.0	191.4	785.6	648.2	137.43	5.716				
6,550.0	6,414.9	6,396.9	6,396.9	15.9	127.9	-73.85	415.0	191.4	768.0	628.6	139.38	5.510				
6,600.0	6,443.7	6,425.7	6,425.7	16.1	128.5	-76.97	415.0	191.4	751.1	609.8	141.35	5.314				
6,650.0	6,469.7	6,451.7	6,451.7	16.3	129.0	-79.93	415.0	191.4	735.6	592.3	143.23	5.136				
6,700.0	6,492.9	6,474.9	6,474.9	16.7	129.5	-82.66	415.0	191.4	721.7	576.8	144.93	4.980				
6,750.0	6,513.1	6,495.1	6,495.1	17.2	129.9	-85.07	415.0	191.4	710.1	563.7	146.43	4.850				
6,800.0	6,530.3	6,512.3	6,512.3	17.7	130.2	-87.09	415.0	191.4	701.0	553.3	147.72	4.746				
6,850.0	6,544.4	6,526.4	6,526.4	18.4	130.5	-88.66	415.0	191.4	695.0	546.1	148.86	4.668				
6,900.0	6,555.3	6,537.3	6,537.3	19.2	130.7	-89.76	415.0	191.4	692.1	542.2	149.91	4.617				
6,916.1	6,558.1	6,540.1	6,540.1	19.4	130.8	-90.00	415.0	191.4	691.9	541.7	150.24	4.606				
6,950.0	6,563.0	6,545.0	6,545.0	20.0	130.9	-90.34	415.0	191.4	692.8	541.9	150.90	4.591				
7,000.0	6,567.5	6,549.5	6,549.5	20.9	131.0	-90.39	415.0	191.4	697.0	545.1	151.89	4.589 SF				
7,050.8	6,568.6	6,550.6	6,550.6	21.9	131.0	-89.89	415.0	191.4	704.8	552.0	152.86	4.611				
7,100.0	6,568.2	6,550.2	6,550.2	22.8	131.0	-89.85	415.0	191.4	715.8	562.0	153.82	4.654				
7,200.0	6,567.2	6,549.2	6,549.2	24.9	131.0	-89.77	415.0	191.4	747.7	591.8	155.88	4.797				
7,300.0	6,566.2	6,548.2	6,548.2	27.1	131.0	-89.68	415.0	191.4	791.0	633.0	158.07	5.004				
7,400.0	6,565.2	6,547.2	6,547.2	29.4	130.9	-89.60	415.0	191.4	844.0	683.7	160.36	5.263				
7,500.0	6,564.2	6,546.2	6,546.2	31.8	130.9	-89.52	415.0	191.4	905.0	742.3	162.74	5.561				
7,600.0	6,563.2	6,545.2	6,545.2	34.3	130.9	-89.44	415.0	191.4	972.5	807.3	165.17	5.888				

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Monfort Kuner B 26-7 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 7312-UNKNOWN													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.0	6,550.2	6,526.2	6,526.2	68.8	130.5	-90.53	421.3	2,826.8	955.4	756.2	199.26	4.795		
9,000.0	6,549.2	6,525.2	6,525.2	71.5	130.5	-90.45	421.3	2,826.8	890.2	688.2	201.98	4.407		
9,100.0	6,548.3	6,524.3	6,524.3	74.2	130.5	-90.37	421.3	2,826.8	831.9	627.2	204.70	4.064		
9,200.0	6,547.3	6,523.3	6,523.3	77.0	130.5	-90.29	421.3	2,826.8	782.1	574.6	207.43	3.770		
9,300.0	6,546.3	6,522.3	6,522.3	79.7	130.4	-90.21	421.3	2,826.8	742.4	532.3	210.16	3.533		
9,400.0	6,545.3	6,521.3	6,521.3	82.5	130.4	-90.12	421.3	2,826.8	714.7	501.8	212.89	3.357		
9,500.0	6,544.3	6,520.3	6,520.3	85.3	130.4	-90.04	421.3	2,826.8	700.2	484.6	215.63	3.247		
9,552.1	6,543.8	6,519.8	6,519.8	86.7	130.4	-90.00	421.3	2,826.8	698.3	481.2	217.06	3.217 CC, ES		
9,600.0	6,543.3	6,519.3	6,519.3	88.0	130.4	-89.96	421.3	2,826.8	699.9	481.6	218.37	3.205 SF		
9,700.0	6,542.3	6,518.3	6,518.3	90.8	130.4	-89.88	421.3	2,826.8	713.8	492.7	221.12	3.228		
9,800.0	6,541.3	6,517.3	6,517.3	93.5	130.3	-89.80	421.3	2,826.8	741.0	517.1	223.86	3.310		
9,900.0	6,540.3	6,516.3	6,516.3	96.3	130.3	-89.72	421.3	2,826.8	780.1	553.5	226.61	3.443		
10,000.0	6,539.3	6,515.3	6,515.3	99.1	130.3	-89.63	421.3	2,826.8	829.6	600.2	229.36	3.617		
10,100.0	6,538.3	6,514.3	6,514.3	101.9	130.3	-89.55	421.3	2,826.8	887.6	655.4	232.11	3.824		
10,200.0	6,537.3	6,513.3	6,513.3	104.6	130.3	-89.47	421.3	2,826.8	952.5	717.7	234.86	4.056		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 6840-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		
10,200.0	6,537.3	6,510.3	6,510.3	104.6	130.2	-90.53	413.5	4,118.2	943.9	709.1	234.81	4.020		
10,300.0	6,536.3	6,509.3	6,509.3	107.4	130.2	-90.45	413.5	4,118.2	878.8	641.2	237.57	3.699		
10,400.0	6,535.3	6,508.3	6,508.3	110.2	130.2	-90.37	413.5	4,118.2	820.7	580.4	240.33	3.415		
10,500.0	6,534.3	6,507.3	6,507.3	113.0	130.1	-90.28	413.5	4,118.2	771.3	528.2	243.10	3.173		
10,600.0	6,533.3	6,506.3	6,506.3	115.8	130.1	-90.20	413.5	4,118.2	732.2	486.3	245.86	2.978		
10,700.0	6,532.3	6,505.3	6,505.3	118.5	130.1	-90.12	413.5	4,118.2	705.3	456.6	248.62	2.837		
10,800.0	6,531.3	6,504.3	6,504.3	121.3	130.1	-90.04	413.5	4,118.2	691.8	440.5	251.39	2.752		
10,843.7	6,530.9	6,503.9	6,503.9	122.5	130.1	-90.00	413.5	4,118.2	690.5	437.9	252.59	2.733 CC, ES		
10,900.0	6,530.3	6,503.3	6,503.3	124.1	130.1	-89.95	413.5	4,118.2	692.8	438.6	254.15	2.726 SF		
11,000.0	6,529.4	6,502.4	6,502.4	126.9	130.0	-89.87	413.5	4,118.2	707.9	451.0	256.92	2.756		
11,100.0	6,528.4	6,501.4	6,501.4	129.7	130.0	-89.79	413.5	4,118.2	736.5	476.8	259.68	2.836		
11,200.0	6,527.4	6,500.4	6,500.4	132.5	130.0	-89.71	413.5	4,118.2	777.0	514.5	262.45	2.960		
11,300.0	6,526.4	6,499.4	6,499.4	135.3	130.0	-89.62	413.5	4,118.2	827.6	562.4	265.22	3.121		
11,400.0	6,525.4	6,498.4	6,498.4	138.0	130.0	-89.54	413.5	4,118.2	886.7	618.7	267.99	3.309		
11,500.0	6,524.4	6,497.4	6,497.4	140.8	129.9	-89.46	413.5	4,118.2	952.6	681.9	270.75	3.518		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	12.0	12.0	0.0	0.0	-164.89	-615.0	-166.1	637.0	637.0	0.01	N/A		
100.0	100.0	112.0	112.0	0.1	0.1	-164.89	-615.0	-166.1	637.0	636.8	0.25	2,530.477		
200.0	200.0	212.0	212.0	0.3	0.4	-164.89	-615.0	-166.1	637.0	636.3	0.70	908.376		
300.0	300.0	312.0	312.0	0.6	0.6	-164.89	-615.0	-166.1	637.0	635.9	1.15	553.542		
400.0	400.0	412.0	412.0	0.8	0.8	-164.89	-615.0	-166.1	637.0	635.4	1.60	398.053		
500.0	500.0	512.0	512.0	1.0	1.0	-164.89	-615.0	-166.1	637.0	635.0	2.05	310.760		
600.0	600.0	612.0	612.0	1.2	1.3	-164.89	-615.0	-166.1	637.0	634.5	2.50	254.868		
700.0	700.0	712.0	712.0	1.5	1.5	-164.89	-615.0	-166.1	637.0	634.1	2.95	216.016		
800.0	800.0	812.0	812.0	1.7	1.7	-164.89	-615.0	-166.1	637.0	633.6	3.40	187.443		
900.0	900.0	912.0	912.0	1.9	1.9	-164.89	-615.0	-166.1	637.0	633.2	3.85	165.545		
1,000.0	1,000.0	1,012.0	1,012.0	2.1	2.2	-164.89	-615.0	-166.1	637.0	632.7	4.30	148.229		
1,100.0	1,100.0	1,112.0	1,112.0	2.4	2.4	-164.89	-615.0	-166.1	637.0	632.3	4.75	134.192		
1,200.0	1,200.0	1,212.0	1,212.0	2.6	2.6	-164.89	-615.0	-166.1	637.0	631.8	5.20	122.584		
1,300.0	1,300.0	1,312.0	1,312.0	2.8	2.8	-164.89	-615.0	-166.1	637.0	631.4	5.65	112.824		
1,400.0	1,400.0	1,412.0	1,412.0	3.0	3.1	-164.89	-615.0	-166.1	637.0	630.9	6.10	104.503		
1,500.0	1,500.0	1,512.0	1,512.0	3.2	3.3	-43.13	-615.0	-166.1	636.1	629.5	6.52	97.506		
1,600.0	1,599.9	1,611.9	1,611.9	3.4	3.5	-43.41	-615.0	-166.1	633.2	626.3	6.93	91.336		
1,700.0	1,699.7	1,711.7	1,711.7	3.6	3.7	-43.87	-615.0	-166.1	628.5	621.1	7.35	85.538		
1,800.0	1,799.3	1,811.3	1,811.3	3.8	4.0	-44.52	-615.0	-166.1	621.9	614.1	7.77	80.058		
1,900.0	1,898.6	1,910.6	1,910.6	4.1	4.2	-45.37	-615.0	-166.1	613.5	605.3	8.20	74.844		
1,987.8	1,985.5	1,997.5	1,997.5	4.3	4.4	-46.31	-615.0	-166.1	604.8	596.2	8.59	70.450		
2,000.0	1,997.5	2,009.5	2,009.5	4.3	4.4	-46.43	-615.0	-166.1	603.5	594.9	8.64	69.844		
2,100.0	2,096.4	2,108.4	2,108.4	4.6	4.6	-47.50	-615.0	-166.1	593.0	583.9	9.11	65.110		
2,200.0	2,195.2	2,207.2	2,207.2	4.9	4.8	-48.60	-615.0	-166.1	582.7	573.1	9.59	60.783		
2,300.0	2,294.0	2,306.2	2,306.2	5.2	5.1	-49.75	-615.0	-166.1	572.6	562.5	10.08	56.829		
2,400.0	2,392.8	2,407.9	2,407.9	5.5	5.3	-50.87	-614.6	-167.0	562.4	551.9	10.57	53.193		
2,500.0	2,491.6	2,509.9	2,509.9	5.8	5.5	-51.85	-613.4	-169.6	552.0	540.9	11.07	49.840		
2,600.0	2,590.4	2,612.1	2,611.9	6.1	5.7	-52.70	-611.4	-173.8	541.1	529.5	11.59	46.701		
2,700.0	2,689.3	2,714.4	2,714.0	6.4	5.9	-53.39	-608.7	-179.7	529.7	517.6	12.11	43.752		
2,800.0	2,788.1	2,816.7	2,816.0	6.7	6.2	-53.92	-605.3	-187.2	517.8	505.2	12.64	40.974		
2,900.0	2,886.9	2,919.0	2,917.8	7.1	6.4	-54.28	-601.0	-196.4	505.3	492.2	13.18	38.349		
3,000.0	2,985.7	3,021.3	3,019.3	7.4	6.7	-54.47	-596.1	-207.3	492.3	478.5	13.73	35.861		
3,100.0	3,084.5	3,123.3	3,120.5	7.8	6.9	-54.45	-590.3	-219.7	478.6	464.3	14.29	33.500		
3,200.0	3,183.4	3,223.1	3,219.2	8.1	7.2	-54.29	-584.2	-233.1	464.4	449.6	14.85	31.276		
3,300.0	3,282.2	3,322.1	3,317.1	8.5	7.4	-54.10	-578.1	-246.4	450.3	434.9	15.42	29.202		
3,400.0	3,381.0	3,421.1	3,415.0	8.8	7.7	-53.91	-572.0	-259.7	436.1	420.2	16.00	27.264		
3,500.0	3,479.8	3,520.1	3,512.9	9.2	8.0	-53.70	-565.9	-273.0	422.0	405.4	16.58	25.452		
3,600.0	3,578.6	3,619.0	3,610.8	9.5	8.3	-53.48	-559.8	-286.3	407.9	390.7	17.17	23.755		
3,700.0	3,677.4	3,718.0	3,708.7	9.9	8.6	-53.24	-553.7	-299.6	393.7	376.0	17.76	22.164		
3,800.0	3,776.3	3,817.0	3,806.6	10.2	8.9	-52.99	-547.6	-312.9	379.6	361.2	18.36	20.673		
3,900.0	3,875.1	3,916.0	3,904.5	10.6	9.2	-52.71	-541.5	-326.2	365.5	346.5	18.97	19.272		
4,000.0	3,973.9	4,015.0	4,002.3	10.9	9.5	-52.42	-535.4	-339.5	351.4	331.8	19.57	17.955		
4,100.0	4,072.7	4,113.9	4,100.2	11.3	9.8	-52.10	-529.3	-352.8	337.3	317.1	20.18	16.715		
4,200.0	4,171.5	4,212.9	4,198.1	11.7	10.1	-51.75	-523.2	-366.1	323.2	302.4	20.79	15.548		
4,300.0	4,270.4	4,311.9	4,296.0	12.0	10.4	-51.36	-517.0	-379.4	309.1	287.7	21.40	14.446		
4,400.0	4,369.2	4,410.9	4,393.9	12.4	10.8	-50.95	-510.9	-392.7	295.1	273.1	22.01	13.406		
4,500.0	4,468.0	4,509.9	4,491.8	12.7	11.1	-50.49	-504.8	-406.0	281.0	258.4	22.62	12.423		
4,600.0	4,566.8	4,608.5	4,589.4	13.1	11.4	-49.99	-498.8	-419.2	267.0	243.8	23.22	11.498		
4,700.0	4,665.6	4,705.2	4,685.3	13.5	11.6	-49.89	-493.7	-430.3	253.6	229.8	23.76	10.674		
4,800.0	4,764.4	4,802.0	4,781.7	13.8	11.8	-50.54	-489.9	-438.5	241.1	216.8	24.31	9.917		
4,897.6	4,860.9	4,896.5	4,876.0	14.2	12.0	-51.99	-487.5	-443.6	229.9	205.1	24.87	9.244		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design		Loloff Farms 5N64W26G Pad Sec.26-T5N-R64W - Loloff Farms 26G-432 - Wellbore #1 - Plan #2 (3-9-1)											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			
4,900.0	4,863.3	4,900.0	4,879.5	14.2	12.0	-52.06	-487.5	-443.8	229.7	204.8	24.89	9.228			
5,000.0	4,962.3	4,995.6	4,975.0	14.5	12.2	-53.96	-486.5	-446.0	220.7	195.2	25.41	8.683			
5,100.0	5,061.8	5,094.4	5,073.8	14.7	12.4	-55.98	-486.4	-446.1	214.8	188.9	25.91	8.292			
5,200.0	5,161.6	5,194.2	5,173.6	14.9	12.6	-57.40	-486.4	-446.1	211.2	184.8	26.36	8.011			
5,300.0	5,261.6	5,294.1	5,273.6	15.1	12.8	-58.08	-486.4	-446.1	209.6	182.8	26.76	7.830			
5,338.4	5,300.0	5,332.6	5,312.0	15.1	12.8	-179.98	-486.4	-446.1	209.4	184.8	24.61	8.511			
5,400.0	5,361.6	5,394.1	5,373.6	15.2	13.0	-179.98	-486.4	-446.1	209.4	184.6	24.85	8.428			
5,500.0	5,461.6	5,494.1	5,473.6	15.4	13.2	-179.98	-486.4	-446.1	209.4	184.2	25.24	8.297			
5,600.0	5,561.6	5,594.1	5,573.6	15.5	13.4	-179.98	-486.4	-446.1	209.4	183.8	25.63	8.170			
5,700.0	5,661.6	5,694.1	5,673.6	15.7	13.6	-179.98	-486.4	-446.1	209.4	183.4	26.03	8.046			
5,800.0	5,761.6	5,794.1	5,773.6	15.8	13.8	-179.98	-486.4	-446.1	209.4	183.0	26.42	7.926			
5,843.2	5,804.7	5,837.3	5,816.7	15.9	13.9	-179.98	-486.4	-446.1	209.4	182.8	26.59	7.875 CC			
5,850.0	5,811.6	5,844.1	5,823.6	15.9	13.9	90.03	-486.4	-446.1	209.4	180.6	28.80	7.271			
5,853.6	5,815.2	5,847.7	5,827.2	15.9	13.9	90.04	-486.4	-446.1	209.4	180.6	28.81	7.268			
5,900.0	5,861.5	5,894.1	5,873.5	16.0	14.0	90.60	-486.4	-446.1	209.4	180.5	28.94	7.236			
5,950.0	5,911.2	5,943.8	5,923.2	16.0	14.1	92.04	-486.4	-446.1	209.6	180.5	29.03	7.218			
6,000.0	5,960.5	5,993.0	5,972.5	16.0	14.2	94.31	-486.4	-446.1	210.0	181.0	29.06	7.227			
6,050.0	6,009.0	6,043.3	6,022.7	16.0	14.3	97.04	-486.4	-444.6	211.1	182.1	29.02	7.273			
6,100.0	6,056.7	6,094.3	6,073.5	16.0	14.3	99.74	-486.4	-439.7	212.6	183.7	28.94	7.347			
6,150.0	6,103.4	6,146.1	6,124.6	16.0	14.4	102.38	-486.4	-431.3	214.6	185.8	28.81	7.449			
6,200.0	6,148.7	6,198.7	6,175.7	15.9	14.4	104.94	-486.4	-419.2	217.0	188.4	28.65	7.576			
6,250.0	6,192.6	6,252.0	6,226.7	15.9	14.4	107.40	-486.4	-403.4	219.8	191.4	28.45	7.728			
6,300.0	6,234.8	6,306.2	6,277.1	15.8	14.5	109.74	-486.4	-383.7	223.0	194.7	28.23	7.899			
6,350.0	6,275.2	6,361.1	6,326.8	15.8	14.5	111.96	-486.4	-360.2	226.3	198.4	28.00	8.085			
6,400.0	6,313.5	6,416.9	6,375.3	15.8	14.5	114.04	-486.4	-332.7	229.9	202.1	27.78	8.278			
6,450.0	6,349.7	6,473.5	6,422.3	15.8	14.6	115.97	-486.4	-301.3	233.6	206.0	27.58	8.468			
6,500.0	6,383.6	6,530.9	6,467.6	15.8	14.7	117.76	-486.4	-265.9	237.3	209.9	27.45	8.645			
6,550.0	6,414.9	6,589.1	6,510.6	15.9	14.9	119.39	-486.4	-226.7	241.0	213.6	27.40	8.796			
6,600.0	6,443.7	6,648.1	6,551.0	16.1	15.1	120.87	-486.4	-183.8	244.6	217.1	27.46	8.906			
6,650.0	6,469.7	6,707.8	6,588.4	16.3	15.5	122.19	-486.4	-137.2	248.0	220.3	27.68	8.961			
6,700.0	6,492.9	6,768.2	6,622.4	16.7	16.0	123.35	-486.4	-87.4	251.2	223.1	28.06	8.950			
6,750.0	6,513.1	6,829.3	6,652.7	17.2	16.6	124.35	-486.4	-34.4	254.0	225.4	28.64	8.870			
6,800.0	6,530.3	6,890.8	6,678.9	17.7	17.3	125.20	-486.4	21.3	256.5	227.1	29.42	8.719			
6,850.0	6,544.4	6,952.9	6,700.6	18.4	18.2	125.88	-486.4	79.4	258.7	228.2	30.42	8.503			
6,900.0	6,555.3	7,015.3	6,717.7	19.2	19.2	126.41	-486.4	139.5	260.3	228.7	31.63	8.229			
6,950.0	6,563.0	7,078.1	6,729.8	20.0	20.3	126.78	-486.4	201.0	261.5	228.5	33.05	7.913			
7,000.0	6,567.5	7,141.0	6,736.8	20.9	21.5	126.99	-486.4	263.6	262.2	227.6	34.65	7.568			
7,050.8	6,568.6	7,204.1	6,738.7	21.9	22.8	127.05	-486.4	326.6	262.4	226.0	36.43	7.203			
7,100.0	6,568.2	7,253.3	6,738.4	22.8	23.8	127.08	-486.4	375.8	262.5	224.5	38.04	6.900			
7,200.0	6,567.2	7,353.3	6,737.7	24.9	26.0	127.13	-486.4	475.8	262.7	221.2	41.48	6.334			
7,300.0	6,566.2	7,453.3	6,737.1	27.1	28.3	127.19	-486.4	575.8	262.9	217.8	45.10	5.829			
7,400.0	6,565.2	7,553.3	6,736.4	29.4	30.6	127.25	-486.4	675.8	263.1	214.2	48.88	5.383			
7,500.0	6,564.2	7,653.3	6,735.7	31.8	33.1	127.31	-486.4	775.8	263.3	210.5	52.77	4.989			
7,600.0	6,563.2	7,753.3	6,735.1	34.3	35.6	127.36	-486.4	875.8	263.5	206.7	56.75	4.643			
7,700.0	6,562.2	7,853.3	6,734.4	36.8	38.1	127.42	-486.4	975.8	263.7	202.9	60.81	4.337			
7,800.0	6,561.2	7,953.3	6,733.8	39.4	40.7	127.48	-486.4	1,075.8	263.9	199.0	64.92	4.065			
7,900.0	6,560.2	8,053.3	6,733.1	42.0	43.3	127.53	-486.4	1,175.8	264.1	195.0	69.07	3.824			
8,000.0	6,559.2	8,153.3	6,732.4	44.6	45.9	127.59	-486.4	1,275.8	264.3	191.0	73.27	3.608			
8,100.0	6,558.2	8,253.3	6,731.8	47.2	48.6	127.65	-486.4	1,375.8	264.5	187.0	77.49	3.414			
8,200.0	6,557.2	8,353.3	6,731.1	49.9	51.2	127.71	-486.4	1,475.8	264.7	183.0	81.73	3.239			
8,300.0	6,556.2	8,453.3	6,730.4	52.5	53.9	127.76	-486.4	1,575.8	264.9	178.9	86.00	3.081			

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference														
Offset				Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,400.0	6,555.2	8,553.3	6,729.8	55.2	56.6	127.82	-486.4	1,675.8	265.1	174.8	90.28	2.937		
8,500.0	6,554.2	8,653.3	6,729.1	57.9	59.3	127.88	-486.4	1,775.8	265.3	170.8	94.57	2.806		
8,600.0	6,553.2	8,753.3	6,728.5	60.6	62.0	127.93	-486.4	1,875.8	265.5	166.7	98.87	2.686		
8,700.0	6,552.2	8,853.3	6,727.8	63.3	64.7	127.99	-486.4	1,975.8	265.7	162.6	103.18	2.575		
8,800.0	6,551.2	8,953.3	6,727.1	66.0	67.5	128.04	-486.4	2,075.8	265.9	158.4	107.50	2.474		
8,900.0	6,550.2	9,053.3	6,726.5	68.8	70.2	128.10	-486.4	2,175.8	266.1	154.3	111.82	2.380		
9,000.0	6,549.2	9,153.3	6,725.8	71.5	72.9	128.16	-486.4	2,275.8	266.4	150.2	116.15	2.293		
9,100.0	6,548.3	9,253.3	6,725.1	74.2	75.7	128.21	-486.4	2,375.8	266.6	146.1	120.48	2.213		
9,200.0	6,547.3	9,353.3	6,724.5	77.0	78.4	128.27	-486.4	2,475.8	266.8	142.0	124.81	2.137		
9,300.0	6,546.3	9,453.3	6,723.8	79.7	81.2	128.32	-486.4	2,575.8	267.0	137.8	129.14	2.067		
9,400.0	6,545.3	9,553.3	6,723.1	82.5	83.9	128.38	-486.4	2,675.7	267.2	133.7	133.47	2.002		
9,500.0	6,544.3	9,653.3	6,722.5	85.3	86.7	128.43	-486.4	2,775.7	267.4	129.6	137.80	1.940		
9,600.0	6,543.3	9,753.3	6,721.8	88.0	89.5	128.49	-486.4	2,875.7	267.6	125.5	142.13	1.883		
9,700.0	6,542.3	9,853.3	6,721.2	90.8	92.2	128.55	-486.4	2,975.7	267.8	121.3	146.45	1.829		
9,800.0	6,541.3	9,953.3	6,720.5	93.5	95.0	128.60	-486.4	3,075.7	268.0	117.2	150.78	1.777		
9,900.0	6,540.3	10,053.3	6,719.8	96.3	97.8	128.66	-486.4	3,175.7	268.2	113.1	155.10	1.729		
10,000.0	6,539.3	10,153.3	6,719.2	99.1	100.6	128.71	-486.4	3,275.7	268.4	109.0	159.43	1.684		
10,100.0	6,538.3	10,253.3	6,718.5	101.9	103.3	128.77	-486.4	3,375.7	268.6	104.9	163.74	1.641		
10,200.0	6,537.3	10,353.3	6,717.8	104.6	106.1	128.82	-486.4	3,475.7	268.8	100.8	168.06	1.600		
10,300.0	6,536.3	10,453.3	6,717.2	107.4	108.9	128.88	-486.4	3,575.7	269.0	96.7	172.37	1.561		
10,400.0	6,535.3	10,553.3	6,716.5	110.2	111.7	128.93	-486.4	3,675.7	269.3	92.6	176.68	1.524		
10,500.0	6,534.3	10,653.3	6,715.9	113.0	114.4	128.99	-486.4	3,775.7	269.5	88.5	180.98	1.489 Level 3		
10,600.0	6,533.3	10,753.3	6,715.2	115.8	117.2	129.04	-486.4	3,875.7	269.7	84.4	185.29	1.455 Level 3		
10,700.0	6,532.3	10,853.3	6,714.5	118.5	120.0	129.10	-486.5	3,975.7	269.9	80.3	189.58	1.424 Level 3		
10,800.0	6,531.3	10,953.3	6,713.9	121.3	122.8	129.15	-486.5	4,075.7	270.1	76.2	193.88	1.393 Level 3		
10,900.0	6,530.3	11,053.3	6,713.2	124.1	125.6	129.20	-486.5	4,175.7	270.3	72.1	198.16	1.364 Level 3		
11,000.0	6,529.4	11,153.3	6,712.5	126.9	128.4	129.26	-486.5	4,275.7	270.5	68.1	202.45	1.336 Level 3		
11,100.0	6,528.4	11,253.3	6,711.9	129.7	131.2	129.31	-486.5	4,375.7	270.7	64.0	206.73	1.310 Level 3		
11,200.0	6,527.4	11,353.3	6,711.2	132.5	133.9	129.37	-486.5	4,475.7	270.9	59.9	211.00	1.284 Level 3		
11,300.0	6,526.4	11,453.3	6,710.5	135.3	136.7	129.42	-486.5	4,575.7	271.1	55.9	215.27	1.260 Level 3		
11,400.0	6,525.4	11,553.3	6,709.9	138.0	139.5	129.48	-486.5	4,675.7	271.4	51.8	219.54	1.236 Level 2		
11,500.0	6,524.4	11,653.3	6,709.2	140.8	142.3	129.53	-486.5	4,775.7	271.6	47.8	223.80	1.213 Level 2		
11,600.0	6,523.4	11,753.3	6,708.6	143.6	145.1	129.58	-486.5	4,875.7	271.8	43.7	228.06	1.192 Level 2		
11,700.0	6,522.4	11,853.3	6,707.9	146.4	147.9	129.64	-486.5	4,975.7	272.0	39.7	232.31	1.171 Level 2		
11,800.0	6,521.4	11,953.3	6,707.2	149.2	150.7	129.69	-486.5	5,075.7	272.2	35.7	236.55	1.151 Level 2		
11,900.0	6,520.4	12,053.3	6,706.6	152.0	153.5	129.74	-486.5	5,175.7	272.4	31.6	240.79	1.131 Level 2		
12,000.0	6,519.4	12,153.3	6,705.9	154.8	156.3	129.80	-486.5	5,275.7	272.6	27.6	245.03	1.113 Level 2		
12,100.0	6,518.4	12,253.3	6,705.2	157.6	159.1	129.85	-486.5	5,375.7	272.8	23.6	249.26	1.095 Level 2		
12,200.0	6,517.4	12,353.3	6,704.6	160.4	161.9	129.90	-486.5	5,475.7	273.1	19.6	253.49	1.077 Level 2		
12,300.0	6,516.4	12,453.3	6,703.9	163.2	164.7	129.96	-486.5	5,575.7	273.3	15.6	257.71	1.060 Level 2		
12,400.0	6,515.4	12,553.3	6,703.3	166.0	167.5	130.01	-486.5	5,675.7	273.5	11.6	261.92	1.044 Level 2		
12,500.0	6,514.4	12,653.3	6,702.6	168.8	170.3	130.06	-486.5	5,775.7	273.7	7.6	266.13	1.028 Level 2		
12,600.0	6,513.4	12,753.3	6,701.9	171.6	173.1	130.12	-486.5	5,875.7	273.9	3.6	270.34	1.013 Level 2		
12,700.0	6,512.4	12,853.3	6,701.3	174.4	175.9	130.17	-486.5	5,975.7	274.1	-0.4	274.54	0.999 Level 1		
12,800.0	6,511.4	12,953.3	6,700.6	177.2	178.7	130.22	-486.5	6,075.7	274.3	-4.4	278.73	0.984 Level 1		
12,900.0	6,510.5	13,053.3	6,699.9	180.0	181.5	130.27	-486.5	6,175.7	274.6	-8.4	282.92	0.970 Level 1		
13,000.0	6,509.5	13,153.3	6,699.3	182.8	184.3	130.33	-486.5	6,275.6	274.8	-12.3	287.10	0.957 Level 1		
13,100.0	6,508.5	13,253.3	6,698.6	185.6	187.1	130.38	-486.5	6,375.6	275.0	-16.3	291.28	0.944 Level 1		
13,200.0	6,507.5	13,353.3	6,697.9	188.4	189.9	130.43	-486.5	6,475.6	275.2	-20.2	295.45	0.931 Level 1		
13,300.0	6,506.5	13,453.3	6,697.3	191.2	192.7	130.48	-486.5	6,575.6	275.4	-24.2	299.62	0.919 Level 1		
13,400.0	6,505.5	13,553.3	6,696.6	194.0	195.5	130.54	-486.5	6,675.6	275.6	-28.1	303.78	0.907 Level 1		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference														
Offset														
Semi Major Axis														
Distance														
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
13,500.0	6,504.5	13,653.3	6,696.0	196.8	198.3	130.59	-486.5	6,775.6	275.9	-32.1	307.94	0.896	Level 1	
13,600.0	6,503.5	13,753.3	6,695.3	199.6	200.5	130.64	-486.5	6,875.6	276.1	-35.6	311.67	0.886	Level 1	
13,621.2	6,503.3	13,774.5	6,695.2	200.2	200.9	130.65	-486.5	6,896.8	276.1	-36.3	312.38	0.884	Level 1	
13,649.0	6,503.0	13,797.6	6,695.0	200.9	201.3	130.66	-486.5	6,919.9	276.2	-37.0	313.25	0.882	Level 1, ES, SF	

Reference Depths are relative to WELL @ 4617.0ft (RKB - 13')	Coordinates are relative to: Bihain 26G-202
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°



Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26G-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4617.0ft (RKB - 13')

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: Bihain 26G-202

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.63°

