PETROLEUM DEVELOPMENT CORP DJ Basin

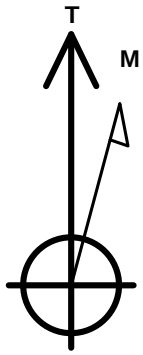
Well Name: **Bihain 26G-212**
Surface Location: Bihain 5N64W26GK Pad Sec.26-T5N-R64W
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone
Ground Elevation: 4604.0

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	1379533.90	3271739.44	40.371120	-104.524707	

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

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2369'FNL & 473'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 2200'FNL & 500'FEL, Sec.25	6527.0	151.6	9560.1	Point



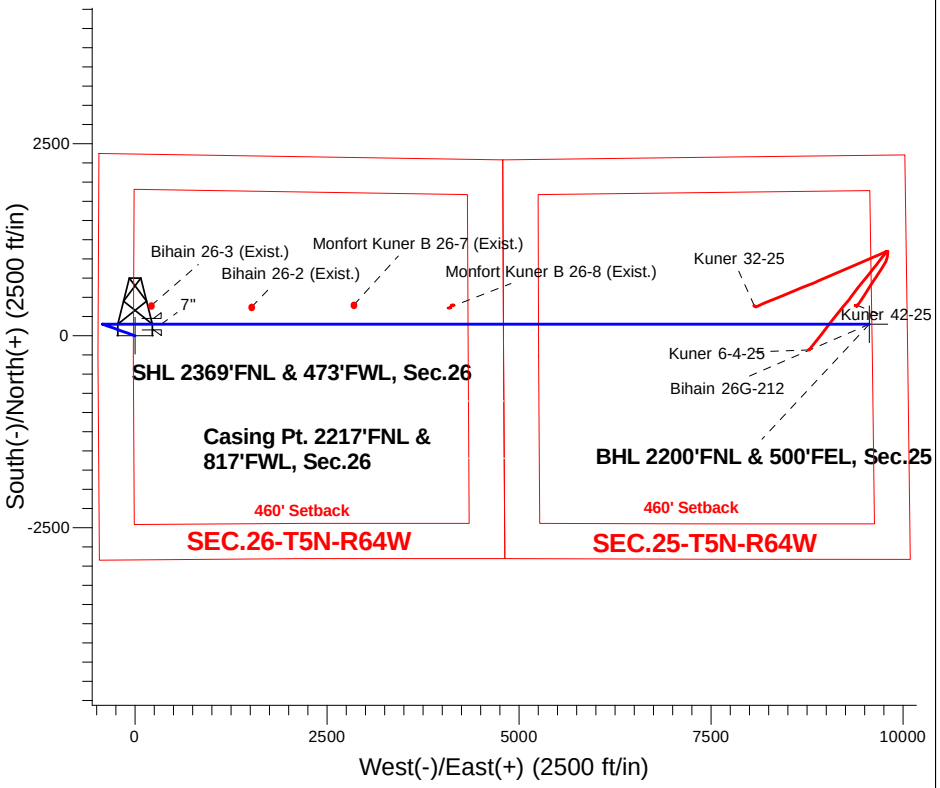
Azimuths to True North
Magnetic North: 8.14°

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

Bihain 5N64W26GK Pad Sec.26-T5N-R64W
Bihain 26G-212
Plan #1 Extended (3-3-16)
15:16, March 09 2016

ANNOTATIONS

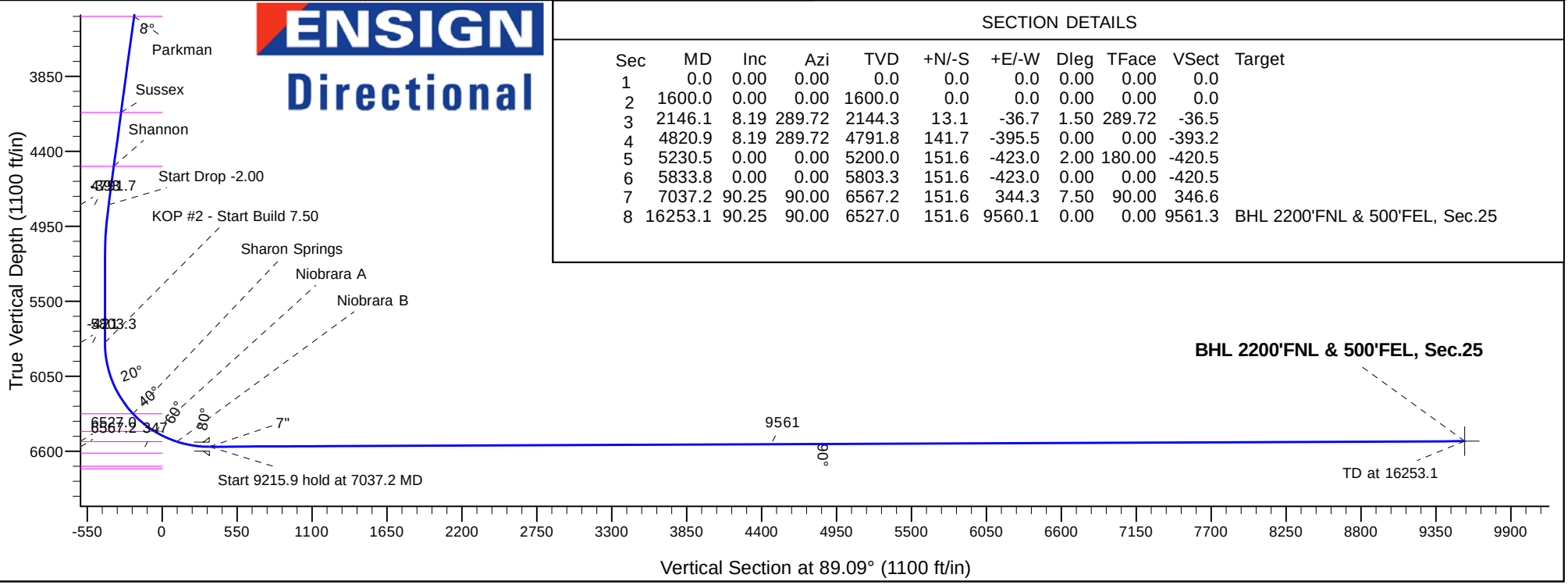
TVD	MD	Annotation
1600.0	1600.0	KOP - Start Build 1.50
4791.8	4820.9	Start Drop -2.00
5803.3	5833.8	KOP #2 - Start Build 7.50
6567.2	7037.2	Start 9215.9 hold at 7037.2 MD
6527.0	16253.1	TD at 16253.1



ENSIGN Directional

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1600.0	0.00	0.00	1600.0	0.0	0.0	0.00	0.00	0.0	
3	2146.1	8.19	289.72	2144.3	13.1	-36.7	1.50	289.72	-36.5	
4	4820.9	8.19	289.72	4791.8	141.7	-395.5	0.00	0.00	-393.2	
5	5230.5	0.00	0.00	5200.0	151.6	-423.0	2.00	180.00	-420.5	
6	5833.8	0.00	0.00	5803.3	151.6	-423.0	0.00	0.00	-420.5	
7	7037.2	90.25	90.00	6567.2	151.6	344.3	7.50	90.00	346.6	
8	16253.1	90.25	90.00	6527.0	151.6	9560.1	0.00	0.00	9561.3	BHL 2200'FNL & 500'FEL, Sec.25



ENSIGN Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W
Bihain 5N64W26GK Pad Sec.26-T5N-R64W
Bihain 26G-212

Wellbore #1

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

Standard Planning Report

09 March, 2016

PDC ENERGY
Growing E&P Value

Database:	US_EDM	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**North Reference:**	True
Well:	Bihain 26G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extended (3-3-16)		

Project SEC.26-T5N-R64W, Weld County, CO

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site Bihain 5N64W26GK Pad Sec.26-T5N-R64W

Site Position:		**Northing:**	1,379,524.57 usft	**Latitude:**	40.371094
From:	Lat/Long	**Easting:**	3,271,750.97 usft	**Longitude:**	-104.524666
Position Uncertainty:	0.0 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.63 °

Well Bihain 26G-212

Well Position	**+N/-S**	9.5 ft	**Northing:**	1,379,533.90 usft	**Latitude:**	40.371120
	+E/-W	-11.4 ft	**Easting:**	3,271,739.44 usft	**Longitude:**	-104.524707
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	0.0 ft	**Ground Level:**	4,604.0 ft

Wellbore Wellbore #1

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

Design Plan #1 Extended (3-3-16)

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	89.09

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	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,146.1	8.19	289.72	2,144.3	13.1	-36.7	1.50	1.50	0.00	289.72	
4,820.9	8.19	289.72	4,791.8	141.7	-395.5	0.00	0.00	0.00	0.00	
5,230.5	0.00	0.00	5,200.0	151.6	-423.0	2.00	-2.00	0.00	180.00	
5,833.8	0.00	0.00	5,803.3	151.6	-423.0	0.00	0.00	0.00	0.00	
7,037.2	90.25	90.00	6,567.2	151.6	344.3	7.50	7.50	0.00	90.00	
16,253.1	90.25	90.00	6,527.0	151.6	9,560.1	0.00	0.00	0.00	0.00	BHL 2200'FNL & 500'

Database:	US_EDM	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**North Reference:**	True
Well:	Bihain 26G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extended (3-3-16)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 2369'FNL & 473'FWL, Sec.26									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.50									
1,700.0	1.50	289.72	1,700.0	0.4	-1.2	-1.2	1.50	1.50	0.00
1,800.0	3.00	289.72	1,799.9	1.8	-4.9	-4.9	1.50	1.50	0.00
1,900.0	4.50	289.72	1,899.7	4.0	-11.1	-11.0	1.50	1.50	0.00
2,000.0	6.00	289.72	1,999.3	7.1	-19.7	-19.6	1.50	1.50	0.00
2,100.0	7.50	289.72	2,098.6	11.0	-30.8	-30.6	1.50	1.50	0.00
2,146.1	8.19	289.72	2,144.3	13.1	-36.7	-36.5	1.50	1.50	0.00
2,200.0	8.19	289.72	2,197.6	15.7	-43.9	-43.7	0.00	0.00	0.00
2,300.0	8.19	289.72	2,296.6	20.5	-57.3	-57.0	0.00	0.00	0.00
2,400.0	8.19	289.72	2,395.6	25.4	-70.7	-70.3	0.00	0.00	0.00
2,500.0	8.19	289.72	2,494.5	30.2	-84.2	-83.7	0.00	0.00	0.00
2,600.0	8.19	289.72	2,593.5	35.0	-97.6	-97.0	0.00	0.00	0.00
2,700.0	8.19	289.72	2,692.5	39.8	-111.0	-110.3	0.00	0.00	0.00
2,800.0	8.19	289.72	2,791.5	44.6	-124.4	-123.7	0.00	0.00	0.00
2,900.0	8.19	289.72	2,890.4	49.4	-137.8	-137.0	0.00	0.00	0.00
3,000.0	8.19	289.72	2,989.4	54.2	-151.2	-150.3	0.00	0.00	0.00
3,100.0	8.19	289.72	3,088.4	59.0	-164.6	-163.7	0.00	0.00	0.00
3,200.0	8.19	289.72	3,187.4	63.8	-178.1	-177.0	0.00	0.00	0.00
3,300.0	8.19	289.72	3,286.4	68.6	-191.5	-190.4	0.00	0.00	0.00
3,400.0	8.19	289.72	3,385.3	73.4	-204.9	-203.7	0.00	0.00	0.00
3,424.9	8.19	289.72	3,410.0	74.6	-208.2	-207.0	0.00	0.00	0.00
Parkman									
3,500.0	8.19	289.72	3,484.3	78.2	-218.3	-217.0	0.00	0.00	0.00
3,600.0	8.19	289.72	3,583.3	83.0	-231.7	-230.4	0.00	0.00	0.00
3,700.0	8.19	289.72	3,682.3	87.8	-245.1	-243.7	0.00	0.00	0.00
3,800.0	8.19	289.72	3,781.3	92.7	-258.5	-257.0	0.00	0.00	0.00
3,900.0	8.19	289.72	3,880.2	97.5	-271.9	-270.4	0.00	0.00	0.00
4,000.0	8.19	289.72	3,979.2	102.3	-285.4	-283.7	0.00	0.00	0.00
4,100.0	8.19	289.72	4,078.2	107.1	-298.8	-297.0	0.00	0.00	0.00
4,137.2	8.19	289.72	4,115.0	108.9	-303.8	-302.0	0.00	0.00	0.00
Sussex									
4,200.0	8.19	289.72	4,177.2	111.9	-312.2	-310.4	0.00	0.00	0.00
4,300.0	8.19	289.72	4,276.2	116.7	-325.6	-323.7	0.00	0.00	0.00
4,400.0	8.19	289.72	4,375.1	121.5	-339.0	-337.0	0.00	0.00	0.00

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Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**North Reference:**	True
Well:	Bihain 26G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extended (3-3-16)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,500.0	8.19	289.72	4,474.1	126.3	-352.4	-350.4	0.00	0.00	0.00
4,536.2	8.19	289.72	4,510.0	128.0	-357.3	-355.2	0.00	0.00	0.00
Shannon									
4,600.0	8.19	289.72	4,573.1	131.1	-365.8	-363.7	0.00	0.00	0.00
4,700.0	8.19	289.72	4,672.1	135.9	-379.3	-377.1	0.00	0.00	0.00
4,800.0	8.19	289.72	4,771.1	140.7	-392.7	-390.4	0.00	0.00	0.00
4,820.9	8.19	289.72	4,791.7	141.7	-395.5	-393.2	0.00	0.00	0.00
Start Drop -2.00									
4,900.0	6.61	289.72	4,870.2	145.2	-405.1	-402.7	2.00	-2.00	0.00
5,000.0	4.61	289.72	4,969.7	148.5	-414.3	-411.9	2.00	-2.00	0.00
5,100.0	2.61	289.72	5,069.5	150.6	-420.2	-417.8	2.00	-2.00	0.00
5,200.0	0.61	289.72	5,169.5	151.5	-422.8	-420.4	2.00	-2.00	0.00
5,230.5	0.00	0.00	5,200.0	151.6	-423.0	-420.5	2.00	-2.00	0.00
5,300.0	0.00	0.00	5,269.5	151.6	-423.0	-420.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,369.5	151.6	-423.0	-420.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,469.5	151.6	-423.0	-420.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,569.5	151.6	-423.0	-420.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,669.5	151.6	-423.0	-420.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,769.5	151.6	-423.0	-420.5	0.00	0.00	0.00
5,833.8	0.00	0.00	5,803.3	151.6	-423.0	-420.5	0.00	0.00	0.00
KOP #2 - Start Build 7.50									
5,900.0	4.96	90.00	5,869.4	151.6	-420.1	-417.7	7.50	7.50	0.00
6,000.0	12.46	90.00	5,968.1	151.6	-405.0	-402.5	7.50	7.50	0.00
6,100.0	19.96	90.00	6,064.1	151.6	-377.1	-374.6	7.50	7.50	0.00
6,200.0	27.46	90.00	6,155.6	151.6	-336.9	-334.5	7.50	7.50	0.00
6,300.0	34.96	90.00	6,241.1	151.6	-285.1	-282.7	7.50	7.50	0.00
6,400.0	42.46	90.00	6,319.0	151.6	-222.6	-220.2	7.50	7.50	0.00
6,408.1	43.07	90.00	6,325.0	151.6	-217.1	-214.7	7.50	7.50	0.00
Sharon Springs									
6,500.0	49.96	90.00	6,388.2	151.6	-150.5	-148.1	7.50	7.50	0.00
6,600.0	57.46	90.00	6,447.3	151.6	-69.9	-67.5	7.50	7.50	0.00
6,614.5	58.55	90.00	6,455.0	151.6	-57.6	-55.2	7.50	7.50	0.00
Niobrara A									
6,700.0	64.96	90.00	6,495.4	151.6	17.6	20.0	7.50	7.50	0.00
6,794.4	72.04	90.00	6,530.0	151.6	105.4	107.8	7.50	7.50	0.00
Niobrara B									
6,800.0	72.46	90.00	6,531.7	151.6	110.8	113.1	7.50	7.50	0.00
6,900.0	79.96	90.00	6,555.5	151.6	207.8	210.2	7.50	7.50	0.00
7,000.0	87.46	90.00	6,566.5	151.6	307.1	309.5	7.50	7.50	0.00
7,037.2	90.25	90.00	6,567.2	151.6	344.3	346.7	7.49	7.49	0.00
Start 9215.9 hold at 7037.2 MD - 7"									
7,100.0	90.25	90.00	6,566.9	151.6	407.1	409.5	0.00	0.00	0.00
7,200.0	90.25	90.00	6,566.5	151.6	507.1	509.5	0.00	0.00	0.00
7,300.0	90.25	90.00	6,566.1	151.6	607.1	609.4	0.00	0.00	0.00
7,400.0	90.25	90.00	6,565.6	151.6	707.1	709.4	0.00	0.00	0.00
7,500.0	90.25	90.00	6,565.2	151.6	807.1	809.4	0.00	0.00	0.00
7,600.0	90.25	90.00	6,564.8	151.6	907.1	909.4	0.00	0.00	0.00
7,700.0	90.25	90.00	6,564.3	151.6	1,007.1	1,009.4	0.00	0.00	0.00
7,800.0	90.25	90.00	6,563.9	151.6	1,107.1	1,109.4	0.00	0.00	0.00
7,900.0	90.25	90.00	6,563.4	151.6	1,207.1	1,209.4	0.00	0.00	0.00
8,000.0	90.25	90.00	6,563.0	151.6	1,307.1	1,309.4	0.00	0.00	0.00
8,100.0	90.25	90.00	6,562.6	151.6	1,407.1	1,409.3	0.00	0.00	0.00

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Project:	SEC.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**North Reference:**	True
Well:	Bihain 26G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extended (3-3-16)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,200.0	90.25	90.00	6,562.1	151.6	1,507.1	1,509.3	0.00	0.00	0.00
8,300.0	90.25	90.00	6,561.7	151.6	1,607.1	1,609.3	0.00	0.00	0.00
8,400.0	90.25	90.00	6,561.3	151.6	1,707.1	1,709.3	0.00	0.00	0.00
8,500.0	90.25	90.00	6,560.8	151.6	1,807.1	1,809.3	0.00	0.00	0.00
8,600.0	90.25	90.00	6,560.4	151.6	1,907.1	1,909.3	0.00	0.00	0.00
8,700.0	90.25	90.00	6,560.0	151.6	2,007.1	2,009.3	0.00	0.00	0.00
8,800.0	90.25	90.00	6,559.5	151.6	2,107.1	2,109.2	0.00	0.00	0.00
8,900.0	90.25	90.00	6,559.1	151.6	2,207.1	2,209.2	0.00	0.00	0.00
9,000.0	90.25	90.00	6,558.6	151.6	2,307.1	2,309.2	0.00	0.00	0.00
9,100.0	90.25	90.00	6,558.2	151.6	2,407.1	2,409.2	0.00	0.00	0.00
9,200.0	90.25	90.00	6,557.8	151.6	2,507.1	2,509.2	0.00	0.00	0.00
9,300.0	90.25	90.00	6,557.3	151.6	2,607.1	2,609.2	0.00	0.00	0.00
9,400.0	90.25	90.00	6,556.9	151.6	2,707.1	2,709.2	0.00	0.00	0.00
9,500.0	90.25	90.00	6,556.5	151.6	2,807.1	2,809.1	0.00	0.00	0.00
9,600.0	90.25	90.00	6,556.0	151.6	2,907.1	2,909.1	0.00	0.00	0.00
9,700.0	90.25	90.00	6,555.6	151.6	3,007.1	3,009.1	0.00	0.00	0.00
9,800.0	90.25	90.00	6,555.2	151.6	3,107.1	3,109.1	0.00	0.00	0.00
9,900.0	90.25	90.00	6,554.7	151.6	3,207.1	3,209.1	0.00	0.00	0.00
10,000.0	90.25	90.00	6,554.3	151.6	3,307.1	3,309.1	0.00	0.00	0.00
10,100.0	90.25	90.00	6,553.8	151.6	3,407.1	3,409.1	0.00	0.00	0.00
10,200.0	90.25	90.00	6,553.4	151.6	3,507.1	3,509.1	0.00	0.00	0.00
10,300.0	90.25	90.00	6,553.0	151.6	3,607.1	3,609.0	0.00	0.00	0.00
10,400.0	90.25	90.00	6,552.5	151.6	3,707.1	3,709.0	0.00	0.00	0.00
10,500.0	90.25	90.00	6,552.1	151.6	3,807.1	3,809.0	0.00	0.00	0.00
10,600.0	90.25	90.00	6,551.7	151.6	3,907.1	3,909.0	0.00	0.00	0.00
10,700.0	90.25	90.00	6,551.2	151.6	4,007.1	4,009.0	0.00	0.00	0.00
10,800.0	90.25	90.00	6,550.8	151.6	4,107.1	4,109.0	0.00	0.00	0.00
10,900.0	90.25	90.00	6,550.4	151.6	4,207.1	4,209.0	0.00	0.00	0.00
11,000.0	90.25	90.00	6,549.9	151.6	4,307.1	4,308.9	0.00	0.00	0.00
11,100.0	90.25	90.00	6,549.5	151.6	4,407.1	4,408.9	0.00	0.00	0.00
11,200.0	90.25	90.00	6,549.0	151.6	4,507.1	4,508.9	0.00	0.00	0.00
11,300.0	90.25	90.00	6,548.6	151.6	4,607.1	4,608.9	0.00	0.00	0.00
11,400.0	90.25	90.00	6,548.2	151.6	4,707.1	4,708.9	0.00	0.00	0.00
11,500.0	90.25	90.00	6,547.7	151.6	4,807.1	4,808.9	0.00	0.00	0.00
11,600.0	90.25	90.00	6,547.3	151.6	4,907.1	4,908.9	0.00	0.00	0.00
11,700.0	90.25	90.00	6,546.9	151.6	5,007.1	5,008.9	0.00	0.00	0.00
11,800.0	90.25	90.00	6,546.4	151.6	5,107.1	5,108.8	0.00	0.00	0.00
11,900.0	90.25	90.00	6,546.0	151.6	5,207.1	5,208.8	0.00	0.00	0.00
12,000.0	90.25	90.00	6,545.6	151.6	5,307.1	5,308.8	0.00	0.00	0.00
12,100.0	90.25	90.00	6,545.1	151.6	5,407.1	5,408.8	0.00	0.00	0.00
12,200.0	90.25	90.00	6,544.7	151.6	5,507.1	5,508.8	0.00	0.00	0.00
12,300.0	90.25	90.00	6,544.2	151.6	5,607.1	5,608.8	0.00	0.00	0.00
12,400.0	90.25	90.00	6,543.8	151.6	5,707.1	5,708.8	0.00	0.00	0.00
12,500.0	90.25	90.00	6,543.4	151.6	5,807.1	5,808.7	0.00	0.00	0.00
12,600.0	90.25	90.00	6,542.9	151.6	5,907.1	5,908.7	0.00	0.00	0.00
12,700.0	90.25	90.00	6,542.5	151.6	6,007.1	6,008.7	0.00	0.00	0.00
12,800.0	90.25	90.00	6,542.1	151.6	6,107.1	6,108.7	0.00	0.00	0.00
12,900.0	90.25	90.00	6,541.6	151.6	6,207.1	6,208.7	0.00	0.00	0.00
13,000.0	90.25	90.00	6,541.2	151.6	6,307.1	6,308.7	0.00	0.00	0.00
13,100.0	90.25	90.00	6,540.8	151.6	6,407.1	6,408.7	0.00	0.00	0.00
13,200.0	90.25	90.00	6,540.3	151.6	6,507.1	6,508.6	0.00	0.00	0.00
13,300.0	90.25	90.00	6,539.9	151.6	6,607.1	6,608.6	0.00	0.00	0.00
13,400.0	90.25	90.00	6,539.4	151.6	6,707.1	6,708.6	0.00	0.00	0.00

Database:	US_EDM	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**North Reference:**	True
Well:	Bihain 26G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extended (3-3-16)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	90.25	90.00	6,539.0	151.6	6,807.1	6,808.6	0.00	0.00	0.00
13,600.0	90.25	90.00	6,538.6	151.6	6,907.1	6,908.6	0.00	0.00	0.00
13,637.8	90.25	90.00	6,538.4	151.6	6,944.9	6,946.4	0.00	0.00	0.00
BHL 2170'FNL & 2140'FWL, Sec.25									
13,700.0	90.25	90.00	6,538.1	151.6	7,007.1	7,008.6	0.00	0.00	0.00
13,800.0	90.25	90.00	6,537.7	151.6	7,107.1	7,108.6	0.00	0.00	0.00
13,900.0	90.25	90.00	6,537.3	151.6	7,207.1	7,208.6	0.00	0.00	0.00
14,000.0	90.25	90.00	6,536.8	151.6	7,307.1	7,308.5	0.00	0.00	0.00
14,100.0	90.25	90.00	6,536.4	151.6	7,407.1	7,408.5	0.00	0.00	0.00
14,200.0	90.25	90.00	6,536.0	151.6	7,507.1	7,508.5	0.00	0.00	0.00
14,300.0	90.25	90.00	6,535.5	151.6	7,607.1	7,608.5	0.00	0.00	0.00
14,400.0	90.25	90.00	6,535.1	151.6	7,707.1	7,708.5	0.00	0.00	0.00
14,500.0	90.25	90.00	6,534.6	151.6	7,807.1	7,808.5	0.00	0.00	0.00
14,600.0	90.25	90.00	6,534.2	151.6	7,907.1	7,908.5	0.00	0.00	0.00
14,700.0	90.25	90.00	6,533.8	151.6	8,007.0	8,008.4	0.00	0.00	0.00
14,800.0	90.25	90.00	6,533.3	151.6	8,107.0	8,108.4	0.00	0.00	0.00
14,900.0	90.25	90.00	6,532.9	151.6	8,207.0	8,208.4	0.00	0.00	0.00
15,000.0	90.25	90.00	6,532.5	151.6	8,307.0	8,308.4	0.00	0.00	0.00
15,100.0	90.25	90.00	6,532.0	151.6	8,407.0	8,408.4	0.00	0.00	0.00
15,200.0	90.25	90.00	6,531.6	151.6	8,507.0	8,508.4	0.00	0.00	0.00
15,300.0	90.25	90.00	6,531.2	151.6	8,607.0	8,608.4	0.00	0.00	0.00
15,400.0	90.25	90.00	6,530.7	151.6	8,707.0	8,708.4	0.00	0.00	0.00
15,500.0	90.25	90.00	6,530.3	151.6	8,807.0	8,808.3	0.00	0.00	0.00
15,600.0	90.25	90.00	6,529.8	151.6	8,907.0	8,908.3	0.00	0.00	0.00
15,700.0	90.25	90.00	6,529.4	151.6	9,007.0	9,008.3	0.00	0.00	0.00
15,800.0	90.25	90.00	6,529.0	151.6	9,107.0	9,108.3	0.00	0.00	0.00
15,900.0	90.25	90.00	6,528.5	151.6	9,207.0	9,208.3	0.00	0.00	0.00
16,000.0	90.25	90.00	6,528.1	151.6	9,307.0	9,308.3	0.00	0.00	0.00
16,100.0	90.25	90.00	6,527.7	151.6	9,407.0	9,408.3	0.00	0.00	0.00
16,200.0	90.25	90.00	6,527.2	151.6	9,507.0	9,508.2	0.00	0.00	0.00
16,253.1	90.25	90.00	6,527.0	151.6	9,560.1	9,561.3	0.00	0.00	0.00
TD at 16253.1 - BHL 2200'FNL & 500'FEL, 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 2369'FNL & 473'FW - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,379,533.91	3,271,739.44	40.371120	-104.524707
BHL 2200'FNL & 500'FE - plan hits target center - Point	0.00	0.00	6,527.0	151.6	9,560.1	1,379,790.62	3,281,296.90	40.371531	-104.490397

Database:	US_EDM	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**North Reference:**	True
Well:	Bihain 26G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extended (3-3-16)		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,037.2	6,567.2	7"	7	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,424.9	3,410.0	Parkman		0.00	
4,137.2	4,115.0	Sussex		0.00	
4,536.2	4,510.0	Shannon		0.00	
6,408.1	6,325.0	Sharon Springs		0.00	
6,614.5	6,455.0	Niobrara A		0.00	
6,794.4	6,530.0	Niobrara B		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,600.0	1,600.0	0.0	0.0	KOP - Start Build 1.50
4,820.9	4,791.8	13.1	-36.7	Start Drop -2.00
5,833.8	5,803.3	141.7	-395.5	KOP #2 - Start Build 7.50
7,037.2	6,567.2	151.6	-423.0	Start 9215.9 hold at 7037.2 MD
16,253.1	6,527.0	151.6	-423.0	TD at 16253.1

ENSIGN Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W
Bihain 5N64W26GK Pad Sec.26-T5N-R64W
Bihain 26G-212

Wellbore #1
Plan #1 Extended (3-3-16)

Anticollision Report

09 March, 2016

PDC ENERGY
Growing E&P Value

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Reference Plan #1 Extended (3-3-16)

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

Survey Tool Program **Date** 3/9/2016

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	16,253.1	Plan #1 Extended (3-3-16) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Bihain 5N64W26GK Pad Sec.26-T5N-R64W						
Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16	1,000.0	1,000.0	30.1	25.9	7.055	CC
Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16	16,253.1	16,284.8	519.9	-29.1	0.947	Level 1, ES, SF
Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16	1,200.0	1,200.0	15.1	9.9	2.912	CC
Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16	16,253.1	16,344.5	317.5	-218.4	0.592	Level 1, ES, SF
Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1	1,620.3	1,620.5	28.8	21.8	4.116	CC
Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1	16,253.1	16,262.4	471.7	-76.8	0.860	Level 1, ES, SF
Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1	1,600.0	1,600.0	14.8	7.9	2.129	CC
Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1	16,253.1	16,331.3	247.0	-284.3	0.465	Level 1, ES, SF
Existing Wells Pad Sec.26-T5N-R64W						
Bihain 26-2 (Exist.) - Wellbore #1 - Wellbore #1	8,215.1	6,532.1	223.3	41.9	1.231	Level 2, CC, ES, SF
Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1	6,906.8	6,528.7	244.4	94.1	1.626	CC, ES, SF
Monfort Kuner B 26-7 (Exist.) - Wellbore #1 - Wellbore #1	9,542.8	6,522.3	250.8	33.3	1.153	Level 2, CC, ES, SF
Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1	10,789.6	6,515.2	209.6	74.9	1.556	CC
Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1	10,800.0	6,514.5	209.9	74.9	1.555	ES, SF
Kuner 8-2-25 Pad Sec.25-T5N-R64W						
Kuner 32-25 - Wellbore #1 - Wellbore #1	14,763.4	6,849.6	231.6	-36.7	0.863	Level 1, CC, ES, SF
Kuner 42-25 - Wellbore #1 - Wellbore #1	16,071.6	6,585.0	244.3	-41.3	0.855	Level 1, CC, ES, SF
Kuner 6-4-25 - Wellbore #1 - Wellbore #1	15,462.6	6,795.6	332.0	55.2	1.199	Level 2, CC, ES, SF

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16

Offset Site Error: 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-50.14	19.3	-23.1	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	-50.14	19.3	-23.1	30.1	29.9	0.22	134.041	
200.0	200.0	200.0	200.0	0.3	0.3	-50.14	19.3	-23.1	30.1	29.5	0.67	44.680	
300.0	300.0	300.0	300.0	0.6	0.6	-50.14	19.3	-23.1	30.1	29.0	1.12	26.808	
400.0	400.0	400.0	400.0	0.8	0.8	-50.14	19.3	-23.1	30.1	28.6	1.57	19.149	
500.0	500.0	500.0	500.0	1.0	1.0	-50.14	19.3	-23.1	30.1	28.1	2.02	14.893	
600.0	600.0	600.0	600.0	1.2	1.2	-50.14	19.3	-23.1	30.1	27.7	2.47	12.186	
700.0	700.0	700.0	700.0	1.5	1.5	-50.14	19.3	-23.1	30.1	27.2	2.92	10.311	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
800.0	800.0	800.0	800.0	1.7	1.7	-50.14	19.3	-23.1	30.1	26.8	3.37	8.936	
900.0	900.0	900.0	900.0	1.9	1.9	-50.14	19.3	-23.1	30.1	26.3	3.82	7.885	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-50.14	19.3	-23.1	30.1	25.9	4.27	7.055	CC
1,100.0	1,100.0	1,099.2	1,099.2	2.4	2.4	-49.39	20.4	-23.8	31.4	26.6	4.72	6.649	
1,200.0	1,200.0	1,198.3	1,198.2	2.6	2.6	-47.45	23.7	-25.8	35.1	29.9	5.16	6.797	
1,300.0	1,300.0	1,297.2	1,296.9	2.8	2.8	-45.01	29.2	-29.2	41.4	35.7	5.61	7.370	
1,400.0	1,400.0	1,395.6	1,394.9	3.0	3.0	-42.62	36.8	-33.8	50.2	44.1	6.07	8.274	
1,500.0	1,500.0	1,493.5	1,492.2	3.3	3.3	-40.57	46.4	-39.8	61.7	55.1	6.54	9.433	
1,600.0	1,600.0	1,590.8	1,588.4	3.5	3.5	-38.91	58.2	-47.0	75.7	68.6	7.02	10.781	
1,700.0	1,700.0	1,687.5	1,683.8	3.7	3.8	32.99	71.9	-55.4	91.1	83.7	7.39	12.324	
1,800.0	1,799.9	1,785.2	1,779.7	3.9	4.1	34.99	87.5	-65.0	106.6	98.8	7.83	13.614	
1,900.0	1,899.7	1,884.1	1,876.9	4.1	4.5	37.23	103.5	-74.8	120.3	112.1	8.27	14.547	
2,000.0	1,999.3	1,983.2	1,974.2	4.4	4.8	39.71	119.5	-84.6	132.3	123.5	8.73	15.156	
2,100.0	2,098.6	2,082.5	2,071.6	4.6	5.2	42.48	135.6	-94.4	142.5	133.3	9.20	15.492	
2,146.1	2,144.3	2,128.3	2,116.6	4.7	5.3	43.86	143.0	-99.0	146.6	137.2	9.42	15.567	
2,200.0	2,197.6	2,181.8	2,169.1	4.8	5.5	45.50	151.6	-104.3	151.4	141.7	9.69	15.620	
2,300.0	2,296.6	2,281.0	2,266.6	5.1	5.9	48.30	167.7	-114.1	160.6	150.3	10.21	15.718	
2,400.0	2,395.6	2,380.3	2,364.1	5.4	6.3	50.80	183.7	-124.0	170.0	159.3	10.75	15.812	
2,500.0	2,494.5	2,479.6	2,461.6	5.7	6.7	53.02	199.8	-133.8	179.8	168.5	11.31	15.898	
2,600.0	2,593.5	2,578.9	2,559.1	6.0	7.1	55.02	215.9	-143.7	189.8	177.9	11.88	15.977	
2,700.0	2,692.5	2,678.2	2,656.6	6.3	7.5	56.81	231.9	-153.5	200.0	187.6	12.47	16.047	
2,800.0	2,791.5	2,777.5	2,754.0	6.6	7.9	58.43	248.0	-163.4	210.4	197.4	13.06	16.109	
2,900.0	2,890.4	2,876.8	2,851.5	6.9	8.3	59.90	264.0	-173.2	221.0	207.3	13.67	16.164	
3,000.0	2,989.4	2,976.1	2,949.0	7.2	8.7	61.23	280.1	-183.1	231.7	217.4	14.29	16.212	
3,100.0	3,088.4	3,075.4	3,046.5	7.5	9.1	62.45	296.1	-192.9	242.5	227.5	14.92	16.254	
3,200.0	3,187.4	3,174.7	3,144.0	7.8	9.5	63.56	312.2	-202.8	253.4	237.8	15.55	16.292	
3,300.0	3,286.4	3,273.9	3,241.5	8.2	9.9	64.58	328.2	-212.6	264.3	248.1	16.19	16.325	
3,400.0	3,385.3	3,373.2	3,339.0	8.5	10.3	65.52	344.3	-222.4	275.4	258.5	16.84	16.354	
3,500.0	3,484.3	3,472.5	3,436.4	8.8	10.7	66.38	360.4	-232.3	286.5	269.0	17.49	16.380	
3,600.0	3,583.3	3,571.8	3,533.9	9.1	11.1	67.18	376.4	-242.1	297.7	279.5	18.15	16.403	
3,700.0	3,682.3	3,671.1	3,631.4	9.5	11.5	67.92	392.5	-252.0	308.9	290.1	18.81	16.423	
3,800.0	3,781.3	3,770.4	3,728.9	9.8	11.9	68.61	408.5	-261.8	320.2	300.7	19.47	16.442	
3,900.0	3,880.2	3,869.7	3,826.4	10.1	12.3	69.26	424.6	-271.7	331.5	311.4	20.14	16.459	
4,000.0	3,979.2	3,969.0	3,923.9	10.5	12.7	69.86	440.6	-281.5	342.9	322.1	20.81	16.474	
4,100.0	4,078.2	4,068.3	4,021.4	10.8	13.1	70.42	456.7	-291.4	354.3	332.8	21.49	16.487	
4,200.0	4,177.2	4,167.6	4,118.9	11.1	13.5	70.95	472.7	-301.2	365.7	343.5	22.16	16.500	
4,300.0	4,276.2	4,266.8	4,216.3	11.5	13.9	71.44	488.8	-311.1	377.2	354.3	22.84	16.511	
4,400.0	4,375.1	4,366.1	4,313.8	11.8	14.4	71.91	504.8	-320.9	388.7	365.1	23.52	16.521	
4,500.0	4,474.1	4,465.4	4,411.3	12.2	14.8	72.35	520.9	-330.8	400.2	376.0	24.21	16.531	
4,600.0	4,573.1	4,564.7	4,508.8	12.5	15.2	72.76	537.0	-340.6	411.7	386.8	24.89	16.539	
4,700.0	4,672.1	4,664.0	4,606.3	12.8	15.6	73.16	553.0	-350.5	423.2	397.7	25.58	16.547	
4,800.0	4,771.1	4,763.3	4,703.8	13.2	16.0	73.53	569.1	-360.3	434.8	408.5	26.26	16.555	
4,820.9	4,791.8	4,784.1	4,724.2	13.2	16.1	73.60	572.4	-362.4	437.2	410.8	26.41	16.556	
4,900.0	4,870.2	4,862.6	4,801.3	13.5	16.4	73.93	585.1	-370.1	446.7	419.8	26.91	16.601	
5,000.0	4,969.7	4,961.7	4,898.6	13.7	16.8	73.97	601.2	-380.0	459.5	432.1	27.44	16.749	
5,100.0	5,069.5	5,060.6	4,995.7	13.9	17.2	73.63	617.2	-389.8	473.3	445.4	27.90	16.968	
5,200.0	5,169.5	5,165.2	5,098.5	14.1	17.6	72.91	633.8	-400.0	488.0	459.7	28.28	17.255	
5,230.5	5,200.0	5,200.4	5,133.1	14.1	17.8	2.34	638.9	-403.1	492.2	464.3	27.99	17.587	
5,300.0	5,269.5	5,280.7	5,212.5	14.2	18.0	1.57	649.1	-409.4	500.9	472.5	28.41	17.630	
5,400.0	5,369.5	5,397.4	5,328.5	14.4	18.3	0.74	660.5	-416.4	510.6	481.6	28.98	17.619	
5,500.0	5,469.5	5,515.0	5,445.8	14.6	18.5	0.23	668.0	-421.0	516.9	487.5	29.47	17.541	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,600.0	5,569.5	5,633.2	5,563.9	14.8	18.7	0.00	671.3	-423.0	519.8	489.9	29.89	17.390	
5,700.0	5,669.5	5,738.8	5,669.5	14.9	18.8	-0.01	671.5	-423.1	519.9	489.7	30.25	17.189	
5,800.0	5,769.5	5,838.8	5,769.5	15.1	19.0	-0.01	671.5	-423.1	519.9	489.3	30.61	16.987	
5,833.8	5,803.3	5,872.6	5,803.3	15.2	19.0	-0.01	671.5	-423.1	519.9	489.2	30.73	16.919	
5,850.0	5,819.5	5,888.8	5,819.5	15.2	19.1	-90.01	671.5	-423.0	519.9	489.4	30.47	17.061	
5,900.0	5,869.4	5,938.8	5,869.4	15.3	19.1	-90.01	671.5	-420.3	519.9	489.3	30.59	16.994	
5,950.0	5,919.0	5,988.8	5,919.0	15.3	19.1	-90.01	671.5	-414.3	519.9	489.2	30.67	16.950	
6,000.0	5,968.1	6,038.8	5,968.2	15.3	19.2	-90.01	671.5	-405.1	519.9	489.2	30.71	16.928	
6,050.0	6,016.6	6,088.8	6,016.6	15.3	19.2	-90.01	671.5	-392.7	519.9	489.2	30.72	16.923	
6,100.0	6,064.1	6,138.8	6,064.1	15.3	19.1	-90.01	671.5	-377.2	519.9	489.2	30.71	16.932	
6,150.0	6,110.5	6,188.8	6,110.5	15.3	19.1	-90.01	671.5	-358.6	519.9	489.2	30.68	16.948	
6,200.0	6,155.6	6,238.9	6,155.6	15.3	19.1	-90.01	671.5	-337.0	519.9	489.3	30.64	16.966	
6,250.0	6,199.2	6,288.9	6,199.2	15.2	19.0	-90.01	671.5	-312.5	519.9	489.3	30.62	16.977	
6,300.0	6,241.1	6,338.9	6,241.1	15.2	19.0	-90.01	671.5	-285.2	519.9	489.3	30.63	16.973	
6,350.0	6,281.1	6,388.9	6,281.1	15.3	18.9	-90.01	671.5	-255.2	519.9	489.2	30.69	16.941	
6,400.0	6,319.0	6,438.9	6,319.1	15.3	18.9	-90.01	671.5	-222.7	519.9	489.1	30.82	16.871	
6,450.0	6,354.8	6,488.9	6,354.8	15.4	18.8	-90.01	671.5	-187.7	519.9	488.9	31.04	16.753	
6,500.0	6,388.2	6,538.9	6,388.2	15.5	18.8	-90.01	671.5	-150.5	519.9	488.6	31.37	16.575	
6,550.0	6,419.1	6,588.9	6,419.1	15.7	18.7	-90.01	671.5	-111.2	519.9	488.1	31.83	16.333	
6,600.0	6,447.3	6,638.9	6,447.4	16.0	18.7	-90.00	671.5	-70.0	519.9	487.5	32.45	16.023	
6,650.0	6,472.8	6,688.9	6,472.8	16.4	18.6	-90.00	671.5	-26.9	519.9	486.7	33.23	15.648	
6,700.0	6,495.4	6,738.9	6,495.5	16.9	18.6	-90.00	671.5	17.6	519.9	485.7	34.17	15.214	
6,750.0	6,515.1	6,788.9	6,515.1	17.5	18.5	-90.00	671.5	63.6	519.9	484.6	35.29	14.732	
6,800.0	6,531.7	6,838.9	6,531.7	18.1	18.5	-90.00	671.5	110.8	519.9	483.3	36.58	14.214	
6,850.0	6,545.2	6,888.9	6,545.2	18.8	19.2	-90.00	671.5	158.9	519.9	481.9	38.02	13.675	
6,900.0	6,555.5	6,938.9	6,555.5	19.6	20.0	-90.00	671.5	207.8	519.9	480.3	39.60	13.129	
6,950.0	6,562.6	6,988.9	6,562.6	20.5	20.9	-90.00	671.5	257.3	519.9	478.6	41.31	12.586	
7,000.0	6,566.5	7,038.9	6,566.4	21.4	21.8	-90.00	671.5	307.1	519.9	476.8	43.12	12.058	
7,037.2	6,567.2	7,076.1	6,567.2	22.1	22.6	-90.00	671.5	344.3	519.9	475.4	44.51	11.680	
7,100.0	6,566.9	7,138.9	6,566.9	23.3	23.8	-90.00	671.5	407.1	519.9	472.9	47.01	11.061	
7,200.0	6,566.5	7,238.9	6,566.5	25.5	26.0	-90.00	671.5	507.1	519.9	468.7	51.19	10.156	
7,300.0	6,566.1	7,338.9	6,566.0	27.7	28.2	-90.00	671.5	607.1	519.9	464.3	55.64	9.345	
7,400.0	6,565.6	7,438.9	6,565.6	30.0	30.5	-90.00	671.5	707.1	519.9	459.6	60.27	8.626	
7,500.0	6,565.2	7,538.9	6,565.2	32.4	32.9	-90.00	671.5	807.1	519.9	454.8	65.07	7.990	
7,600.0	6,564.8	7,638.9	6,564.7	34.9	35.4	-90.00	671.5	907.1	519.9	449.9	69.99	7.429	
7,700.0	6,564.3	7,738.9	6,564.3	37.4	37.9	-90.00	671.5	1,007.1	519.9	444.9	75.00	6.932	
7,800.0	6,563.9	7,838.9	6,563.9	40.0	40.4	-90.00	671.5	1,107.1	519.9	439.8	80.10	6.491	
7,900.0	6,563.4	7,938.9	6,563.4	42.5	43.0	-90.00	671.5	1,207.1	519.9	434.7	85.26	6.098	
8,000.0	6,563.0	8,038.9	6,563.0	45.2	45.6	-90.00	671.5	1,307.1	519.9	429.4	90.48	5.746	
8,100.0	6,562.6	8,138.9	6,562.5	47.8	48.2	-90.00	671.5	1,407.1	519.9	424.2	95.74	5.430	
8,200.0	6,562.1	8,238.9	6,562.1	50.4	50.8	-90.00	671.5	1,507.1	519.9	418.9	101.04	5.145	
8,300.0	6,561.7	8,338.9	6,561.7	53.1	53.5	-90.00	671.5	1,607.1	519.9	413.5	106.38	4.887	
8,400.0	6,561.3	8,438.9	6,561.2	55.8	56.2	-90.00	671.5	1,707.1	519.9	408.2	111.74	4.653	
8,500.0	6,560.8	8,538.9	6,560.8	58.5	58.9	-90.00	671.5	1,807.1	519.9	402.8	117.12	4.439	
8,600.0	6,560.4	8,638.9	6,560.4	61.2	61.5	-90.00	671.5	1,907.1	519.9	397.4	122.53	4.243	
8,700.0	6,560.0	8,738.9	6,559.9	63.9	64.3	-90.00	671.5	2,007.1	519.9	392.0	127.96	4.063	
8,800.0	6,559.5	8,838.9	6,559.5	66.6	67.0	-90.00	671.5	2,107.1	519.9	386.5	133.40	3.897	
8,900.0	6,559.1	8,938.9	6,559.1	69.4	69.7	-90.00	671.5	2,207.1	519.9	381.1	138.85	3.744	
9,000.0	6,558.6	9,038.9	6,558.6	72.1	72.4	-90.00	671.5	2,307.1	519.9	375.6	144.32	3.602	
9,100.0	6,558.2	9,138.9	6,558.2	74.8	75.2	-90.00	671.5	2,407.1	519.9	370.1	149.80	3.471	
9,200.0	6,557.8	9,238.9	6,557.7	77.6	77.9	-90.00	671.5	2,507.1	519.9	364.6	155.29	3.348	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9,300.0	6,557.3	9,338.9	6,557.3	80.3	80.6	-90.00	671.5	2,607.1	519.9	359.1	160.79	3.233	
9,400.0	6,556.9	9,438.9	6,556.9	83.1	83.4	-90.00	671.5	2,707.1	519.9	353.6	166.30	3.126	
9,500.0	6,556.5	9,538.9	6,556.4	85.8	86.1	-90.00	671.5	2,807.1	519.9	348.1	171.81	3.026	
9,600.0	6,556.0	9,638.9	6,556.0	88.6	88.9	-90.00	671.5	2,907.1	519.9	342.6	177.33	2.932	
9,700.0	6,555.6	9,738.9	6,555.6	91.4	91.6	-90.00	671.5	3,007.1	519.9	337.0	182.86	2.843	
9,800.0	6,555.2	9,838.9	6,555.1	94.1	94.4	-90.00	671.5	3,107.1	519.9	331.5	188.39	2.760	
9,900.0	6,554.7	9,938.9	6,554.7	96.9	97.2	-90.00	671.5	3,207.1	519.9	326.0	193.93	2.681	
10,000.0	6,554.3	10,038.9	6,554.3	99.7	99.9	-90.00	671.5	3,307.1	519.9	320.4	199.47	2.606	
10,100.0	6,553.8	10,138.9	6,553.8	102.5	102.7	-90.00	671.5	3,407.1	519.9	314.9	205.02	2.536	
10,200.0	6,553.4	10,238.9	6,553.4	105.2	105.5	-90.00	671.5	3,507.1	519.9	309.3	210.57	2.469	
10,300.0	6,553.0	10,338.9	6,552.9	108.0	108.3	-90.00	671.5	3,607.1	519.9	303.8	216.12	2.406	
10,400.0	6,552.5	10,438.9	6,552.5	110.8	111.0	-90.00	671.5	3,707.1	519.9	298.2	221.68	2.345	
10,500.0	6,552.1	10,538.9	6,552.1	113.6	113.8	-90.00	671.5	3,807.1	519.9	292.7	227.24	2.288	
10,600.0	6,551.7	10,638.9	6,551.6	116.4	116.6	-90.00	671.5	3,907.1	519.9	287.1	232.80	2.233	
10,700.0	6,551.2	10,738.9	6,551.2	119.1	119.4	-90.00	671.5	4,007.1	519.9	281.5	238.37	2.181	
10,800.0	6,550.8	10,838.9	6,550.8	121.9	122.1	-90.00	671.5	4,107.1	519.9	276.0	243.94	2.131	
10,900.0	6,550.4	10,938.9	6,550.3	124.7	124.9	-90.00	671.5	4,207.1	519.9	270.4	249.51	2.084	
11,000.0	6,549.9	11,038.9	6,549.9	127.5	127.7	-90.00	671.5	4,307.1	519.9	264.8	255.08	2.038	
11,100.0	6,549.5	11,138.9	6,549.5	130.3	130.5	-90.00	671.5	4,407.1	519.9	259.2	260.66	1.995	
11,200.0	6,549.0	11,238.9	6,549.0	133.1	133.3	-90.00	671.5	4,507.1	519.9	253.7	266.23	1.953	
11,300.0	6,548.6	11,338.9	6,548.6	135.9	136.1	-90.00	671.5	4,607.1	519.9	248.1	271.81	1.913	
11,400.0	6,548.2	11,438.9	6,548.1	138.7	138.9	-90.00	671.5	4,707.1	519.9	242.5	277.39	1.874	
11,500.0	6,547.7	11,538.9	6,547.7	141.4	141.6	-90.00	671.5	4,807.1	519.9	236.9	282.97	1.837	
11,600.0	6,547.3	11,638.9	6,547.3	144.2	144.4	-90.00	671.5	4,907.1	519.9	231.3	288.56	1.802	
11,700.0	6,546.9	11,738.9	6,546.8	147.0	147.2	-90.00	671.5	5,007.1	519.9	225.7	294.14	1.767	
11,800.0	6,546.4	11,838.9	6,546.4	149.8	150.0	-90.00	671.5	5,107.1	519.9	220.2	299.73	1.735	
11,900.0	6,546.0	11,938.9	6,546.0	152.6	152.8	-90.00	671.5	5,207.1	519.9	214.6	305.32	1.703	
12,000.0	6,545.6	12,038.9	6,545.5	155.4	155.6	-90.00	671.5	5,307.1	519.9	209.0	310.90	1.672	
12,100.0	6,545.1	12,138.9	6,545.1	158.2	158.4	-90.00	671.5	5,407.1	519.9	203.4	316.49	1.643	
12,200.0	6,544.7	12,238.9	6,544.7	161.0	161.2	-90.00	671.5	5,507.1	519.9	197.8	322.08	1.614	
12,300.0	6,544.2	12,338.9	6,544.2	163.8	164.0	-90.00	671.5	5,607.1	519.9	192.2	327.68	1.587	
12,400.0	6,543.8	12,438.9	6,543.8	166.6	166.8	-90.00	671.5	5,707.1	519.9	186.6	333.27	1.560	
12,500.0	6,543.4	12,538.9	6,543.3	169.4	169.6	-90.00	671.5	5,807.1	519.9	181.0	338.86	1.534	
12,600.0	6,542.9	12,638.9	6,542.9	172.2	172.4	-90.00	671.5	5,907.1	519.9	175.4	344.46	1.509	
12,700.0	6,542.5	12,738.9	6,542.5	175.0	175.2	-90.00	671.5	6,007.1	519.9	169.8	350.05	1.485	Level 3
12,800.0	6,542.1	12,838.9	6,542.0	177.8	178.0	-90.00	671.5	6,107.1	519.9	164.2	355.65	1.462	Level 3
12,900.0	6,541.6	12,938.9	6,541.6	180.6	180.8	-90.00	671.5	6,207.1	519.9	158.6	361.24	1.439	Level 3
13,000.0	6,541.2	13,038.9	6,541.2	183.4	183.6	-90.00	671.5	6,307.1	519.9	153.0	366.84	1.417	Level 3
13,100.0	6,540.8	13,138.9	6,540.7	186.2	186.4	-90.00	671.5	6,407.1	519.9	147.4	372.44	1.396	Level 3
13,200.0	6,540.3	13,238.9	6,540.3	189.0	189.1	-90.00	671.5	6,507.1	519.9	141.8	378.04	1.375	Level 3
13,300.0	6,539.9	13,338.9	6,539.9	191.8	191.9	-90.00	671.5	6,607.1	519.9	136.2	383.64	1.355	Level 3
13,400.0	6,539.4	13,438.9	6,539.4	194.6	194.7	-90.00	671.5	6,707.1	519.9	130.6	389.24	1.336	Level 3
13,500.0	6,539.0	13,538.9	6,539.0	197.4	197.5	-90.00	671.5	6,807.1	519.9	125.0	394.84	1.317	Level 3
13,600.0	6,538.6	13,638.9	6,538.5	200.2	200.3	-90.00	671.5	6,907.1	519.9	119.4	400.44	1.298	Level 3
13,700.0	6,538.1	13,738.9	6,538.1	203.0	203.1	-90.00	671.5	7,007.1	519.9	113.8	406.04	1.280	Level 3
13,800.0	6,537.7	13,838.9	6,537.7	205.8	205.9	-90.00	671.5	7,107.1	519.9	108.2	411.64	1.263	Level 3
13,900.0	6,537.3	13,938.9	6,537.2	208.6	208.7	-90.00	671.5	7,207.1	519.9	102.6	417.25	1.246	Level 2
14,000.0	6,536.8	14,038.9	6,536.8	211.4	211.5	-90.00	671.5	7,307.1	519.9	97.0	422.85	1.229	Level 2
14,100.0	6,536.4	14,138.9	6,536.4	214.2	214.3	-90.00	671.5	7,407.1	519.9	91.4	428.45	1.213	Level 2
14,200.0	6,536.0	14,238.9	6,535.9	217.0	217.1	-90.00	671.5	7,507.1	519.9	85.8	434.06	1.198	Level 2
14,300.0	6,535.5	14,338.9	6,535.5	219.8	219.9	-90.00	671.5	7,607.1	519.9	80.2	439.66	1.182	Level 2

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
14,400.0	6,535.1	14,438.9	6,535.1	222.6	222.7	-90.00	671.5	7,707.1	519.9	74.6	445.27	1.168	Level 2
14,500.0	6,534.6	14,538.9	6,534.6	225.4	225.6	-90.00	671.5	7,807.1	519.9	69.0	450.87	1.153	Level 2
14,600.0	6,534.2	14,638.9	6,534.2	228.2	228.4	-90.00	671.5	7,907.1	519.9	63.4	456.48	1.139	Level 2
14,700.0	6,533.8	14,738.9	6,533.7	231.0	231.2	-90.00	671.5	8,007.1	519.9	57.8	462.08	1.125	Level 2
14,800.0	6,533.3	14,838.9	6,533.3	233.8	234.0	-90.00	671.5	8,107.1	519.9	52.2	467.69	1.112	Level 2
14,900.0	6,532.9	14,938.9	6,532.9	236.6	236.8	-90.00	671.5	8,207.1	519.9	46.6	473.30	1.098	Level 2
15,000.0	6,532.5	15,038.9	6,532.4	239.4	239.6	-90.00	671.5	8,307.0	519.9	41.0	478.90	1.086	Level 2
15,100.0	6,532.0	15,138.9	6,532.0	242.2	242.4	-90.00	671.5	8,407.0	519.9	35.4	484.51	1.073	Level 2
15,200.0	6,531.6	15,238.9	6,531.6	245.0	245.2	-90.00	671.5	8,507.0	519.9	29.8	490.12	1.061	Level 2
15,300.0	6,531.2	15,338.9	6,531.1	247.8	248.0	-90.00	671.5	8,607.0	519.9	24.1	495.72	1.049	Level 2
15,400.0	6,530.7	15,438.9	6,530.7	250.6	250.8	-90.00	671.5	8,707.0	519.9	18.5	501.33	1.037	Level 2
15,500.0	6,530.3	15,538.9	6,530.3	253.4	253.6	-90.00	671.5	8,807.0	519.9	12.9	506.94	1.026	Level 2
15,600.0	6,529.8	15,638.9	6,529.8	256.2	256.4	-90.00	671.5	8,907.0	519.9	7.3	512.55	1.014	Level 2
15,700.0	6,529.4	15,738.9	6,529.4	259.0	259.2	-90.00	671.5	9,007.0	519.9	1.7	518.16	1.003	Level 2
15,800.0	6,529.0	15,838.9	6,528.9	261.8	262.0	-90.00	671.5	9,107.0	519.9	-3.9	523.77	0.993	Level 1
15,900.0	6,528.5	15,938.9	6,528.5	264.7	264.8	-90.00	671.5	9,207.0	519.9	-9.5	529.38	0.982	Level 1
16,000.0	6,528.1	16,038.9	6,528.1	267.5	267.6	-90.00	671.5	9,307.0	519.9	-15.1	534.99	0.972	Level 1
16,100.0	6,527.7	16,138.9	6,527.6	270.3	270.4	-90.00	671.5	9,407.0	519.9	-20.7	540.60	0.962	Level 1
16,200.0	6,527.2	16,238.9	6,527.2	273.1	273.2	-90.00	671.5	9,507.0	519.9	-26.3	546.21	0.952	Level 1
16,237.7	6,527.1	16,276.6	6,527.0	274.1	274.3	-90.00	671.5	9,544.7	519.9	-28.5	548.32	0.948	Level 1
16,253.1	6,527.0	16,284.8	6,527.0	274.6	274.5	-90.00	671.5	9,552.9	519.9	-29.1	548.98	0.947	Level 1, ES, SF

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-51.01	9.5	-11.7	15.1	15.1	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	-51.01	9.5	-11.7	15.1	14.8	0.22	66.985	
200.0	200.0	200.0	200.0	0.3	0.3	-51.01	9.5	-11.7	15.1	14.4	0.67	22.328	
300.0	300.0	300.0	300.0	0.6	0.6	-51.01	9.5	-11.7	15.1	13.9	1.12	13.397	
400.0	400.0	400.0	400.0	0.8	0.8	-51.01	9.5	-11.7	15.1	13.5	1.57	9.569	
500.0	500.0	500.0	500.0	1.0	1.0	-51.01	9.5	-11.7	15.1	13.0	2.02	7.443	
600.0	600.0	600.0	600.0	1.2	1.2	-51.01	9.5	-11.7	15.1	12.6	2.47	6.090	
700.0	700.0	700.0	700.0	1.5	1.5	-51.01	9.5	-11.7	15.1	12.1	2.92	5.153	
800.0	800.0	800.0	800.0	1.7	1.7	-51.01	9.5	-11.7	15.1	11.7	3.37	4.466	
900.0	900.0	900.0	900.0	1.9	1.9	-51.01	9.5	-11.7	15.1	11.2	3.82	3.940	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-51.01	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	-51.01	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	-51.01	9.5	-11.7	15.1	9.9	5.17	2.912 CC	
1,300.0	1,300.0	1,299.6	1,299.6	2.8	2.8	-50.32	10.4	-12.6	16.3	10.7	5.62	2.911	
1,400.0	1,400.0	1,399.0	1,399.0	3.0	3.0	-48.78	13.3	-15.2	20.2	14.2	6.06	3.338	
1,500.0	1,500.0	1,498.2	1,497.9	3.3	3.2	-47.21	18.1	-19.5	26.7	20.2	6.51	4.103	
1,600.0	1,600.0	1,597.0	1,596.3	3.5	3.5	-45.97	24.7	-25.6	35.8	28.8	6.96	5.136	
1,700.0	1,700.0	1,695.4	1,694.0	3.7	3.7	25.83	33.2	-33.3	46.2	38.8	7.38	6.262	
1,800.0	1,799.9	1,793.5	1,791.1	3.9	4.0	27.98	43.5	-42.7	57.0	49.1	7.81	7.293	
1,900.0	1,899.7	1,892.6	1,888.9	4.1	4.3	30.50	55.2	-53.3	67.3	59.0	8.25	8.159	
2,000.0	1,999.3	1,992.2	1,987.2	4.4	4.6	33.40	67.0	-64.1	75.6	66.9	8.69	8.696	
2,100.0	2,098.6	2,091.8	2,085.6	4.6	4.9	36.80	78.8	-74.8	81.9	72.8	9.15	8.953	
2,146.1	2,144.3	2,137.8	2,131.0	4.7	5.0	38.56	84.3	-79.8	84.2	74.9	9.37	8.991	
2,200.0	2,197.6	2,191.6	2,184.0	4.8	5.2	40.66	90.7	-85.6	86.8	77.2	9.64	9.005	
2,300.0	2,296.6	2,291.3	2,282.5	5.1	5.5	44.24	102.5	-96.3	91.8	81.7	10.16	9.044	
2,400.0	2,395.6	2,391.0	2,380.9	5.4	5.8	47.44	114.3	-107.1	97.2	86.5	10.69	9.091	
2,500.0	2,494.5	2,490.7	2,479.3	5.7	6.2	50.29	126.1	-117.8	102.8	91.6	11.25	9.144	
2,600.0	2,593.5	2,590.4	2,577.7	6.0	6.5	52.84	138.0	-128.6	108.7	96.9	11.82	9.197	
2,700.0	2,692.5	2,690.1	2,676.2	6.3	6.9	55.13	149.8	-139.4	114.8	102.4	12.41	9.250	
2,800.0	2,791.5	2,789.9	2,774.6	6.6	7.2	57.19	161.6	-150.1	121.0	108.0	13.01	9.302	
2,900.0	2,890.4	2,889.6	2,873.0	6.9	7.6	59.04	173.4	-160.9	127.4	113.7	13.62	9.351	
3,000.0	2,989.4	2,989.3	2,971.5	7.2	7.9	60.72	185.3	-171.6	133.9	119.6	14.24	9.398	
3,100.0	3,088.4	3,089.0	3,069.9	7.5	8.3	62.24	197.1	-182.4	140.4	125.6	14.87	9.443	
3,200.0	3,187.4	3,188.7	3,168.3	7.8	8.6	63.62	208.9	-193.1	147.1	131.6	15.51	9.485	
3,300.0	3,286.4	3,288.4	3,266.7	8.2	9.0	64.88	220.7	-203.9	153.9	137.7	16.16	9.524	
3,400.0	3,385.3	3,388.2	3,365.2	8.5	9.3	66.04	232.6	-214.7	160.7	143.9	16.81	9.561	
3,500.0	3,484.3	3,487.9	3,463.6	8.8	9.7	67.10	244.4	-225.4	167.6	150.1	17.46	9.596	
3,600.0	3,583.3	3,587.6	3,562.0	9.1	10.1	68.08	256.2	-236.2	174.5	156.4	18.12	9.629	
3,700.0	3,682.3	3,687.3	3,660.4	9.5	10.4	68.98	268.0	-246.9	181.5	162.7	18.79	9.661	
3,800.0	3,781.3	3,787.0	3,758.9	9.8	10.8	69.81	279.9	-257.7	188.5	169.1	19.46	9.690	
3,900.0	3,880.2	3,886.7	3,857.3	10.1	11.1	70.59	291.7	-268.4	195.6	175.5	20.13	9.718	
4,000.0	3,979.2	3,986.5	3,955.7	10.5	11.5	71.31	303.5	-279.2	202.7	181.9	20.80	9.744	
4,100.0	4,078.2	4,086.2	4,054.2	10.8	11.9	71.98	315.3	-289.9	209.8	188.3	21.48	9.769	
4,200.0	4,177.2	4,185.9	4,152.6	11.1	12.2	72.61	327.1	-300.7	217.0	194.8	22.16	9.793	
4,300.0	4,276.2	4,285.6	4,251.0	11.5	12.6	73.20	339.0	-311.5	224.2	201.3	22.84	9.815	
4,400.0	4,375.1	4,385.3	4,349.4	11.8	13.0	73.75	350.8	-322.2	231.4	207.8	23.52	9.837	
4,500.0	4,474.1	4,485.0	4,447.9	12.2	13.3	74.27	362.6	-333.0	238.6	214.4	24.20	9.857	
4,600.0	4,573.1	4,584.8	4,546.3	12.5	13.7	74.75	374.4	-343.7	245.8	220.9	24.89	9.877	
4,700.0	4,672.1	4,684.5	4,644.7	12.8	14.1	75.21	386.3	-354.5	253.1	227.5	25.57	9.895	
4,800.0	4,771.1	4,784.2	4,743.1	13.2	14.4	75.65	398.1	-365.2	260.3	234.1	26.26	9.913	
4,820.9	4,791.8	4,805.1	4,763.8	13.2	14.5	75.73	400.6	-367.5	261.9	235.5	26.41	9.917	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,900.0	4,870.2	4,883.9	4,841.6	13.5	14.8	75.95	409.9	-376.0	267.9	241.0	26.90	9.960	
5,000.0	4,969.7	4,983.5	4,939.9	13.7	15.2	75.59	421.7	-386.7	276.3	248.9	27.40	10.081	
5,100.0	5,069.5	5,082.9	5,038.0	13.9	15.5	74.61	433.5	-397.5	285.6	257.7	27.83	10.260	
5,200.0	5,169.5	5,189.5	5,143.5	14.1	15.8	73.19	444.8	-407.7	294.8	266.7	28.12	10.482	
5,230.5	5,200.0	5,222.3	5,176.0	14.1	15.9	2.45	447.7	-410.3	297.3	271.5	25.82	11.513	
5,300.0	5,269.5	5,297.0	5,250.4	14.2	16.1	1.45	453.2	-415.4	302.3	276.1	26.21	11.534	
5,400.0	5,369.5	5,405.2	5,358.3	14.4	16.3	0.50	458.7	-420.3	307.3	280.6	26.71	11.504	
5,500.0	5,469.5	5,513.7	5,466.8	14.6	16.5	0.08	461.1	-422.6	309.5	282.4	27.14	11.407	
5,600.0	5,569.5	5,616.4	5,569.5	14.8	16.6	0.06	461.3	-422.7	309.7	282.2	27.51	11.257	
5,700.0	5,669.5	5,716.4	5,669.5	14.9	16.8	0.06	461.3	-422.7	309.7	281.8	27.89	11.102	
5,800.0	5,769.5	5,816.4	5,769.5	15.1	16.9	0.06	461.3	-422.7	309.7	281.4	28.28	10.952	
5,833.8	5,803.3	5,850.2	5,803.3	15.2	17.0	0.06	461.3	-422.7	309.7	281.3	28.41	10.901	
5,850.0	5,819.5	5,866.4	5,819.5	15.2	17.0	-89.98	461.3	-422.7	309.7	279.4	30.24	10.239	
5,855.1	5,824.6	5,871.5	5,824.6	15.2	17.0	-90.00	461.3	-422.7	309.7	279.4	30.26	10.234	
5,900.0	5,869.4	5,916.3	5,869.4	15.3	17.1	-90.47	461.3	-422.7	309.7	279.3	30.35	10.202	
5,950.0	5,919.0	5,966.3	5,919.4	15.3	17.2	-91.41	461.3	-421.8	309.8	279.4	30.39	10.194	
6,000.0	5,968.1	6,016.7	5,969.6	15.3	17.2	-92.36	461.3	-417.8	309.9	279.6	30.37	10.204	
6,050.0	6,016.6	6,067.5	6,019.8	15.3	17.3	-93.31	461.3	-410.3	310.2	279.9	30.32	10.229	
6,100.0	6,064.1	6,118.6	6,069.8	15.3	17.3	-94.25	461.3	-399.5	310.5	280.3	30.25	10.266	
6,150.0	6,110.5	6,170.1	6,119.2	15.3	17.3	-95.16	461.3	-385.2	310.9	280.8	30.15	10.313	
6,200.0	6,155.6	6,221.9	6,167.9	15.3	17.2	-96.06	461.3	-367.5	311.4	281.4	30.05	10.364	
6,250.0	6,199.2	6,274.1	6,215.6	15.2	17.2	-96.93	461.3	-346.4	312.0	282.0	29.95	10.417	
6,300.0	6,241.1	6,326.7	6,262.1	15.2	17.2	-97.77	461.3	-321.9	312.6	282.7	29.87	10.465	
6,350.0	6,281.1	6,379.5	6,307.1	15.3	17.1	-98.57	461.3	-294.1	313.2	283.4	29.83	10.501	
6,400.0	6,319.0	6,432.8	6,350.3	15.3	17.1	-99.34	461.3	-263.0	313.8	284.0	29.84	10.517	
6,450.0	6,354.8	6,486.3	6,391.5	15.4	17.0	-100.06	461.3	-228.8	314.5	284.6	29.94	10.504	
6,500.0	6,388.2	6,540.2	6,430.4	15.5	17.0	-100.74	461.3	-191.6	315.2	285.1	30.15	10.456	
6,550.0	6,419.1	6,594.4	6,466.8	15.7	16.9	-101.37	461.3	-151.4	315.9	285.4	30.48	10.364	
6,600.0	6,447.3	6,648.9	6,500.4	16.0	16.9	-101.95	461.3	-108.6	316.5	285.6	30.96	10.223	
6,650.0	6,472.8	6,703.6	6,531.0	16.4	17.0	-102.47	461.3	-63.2	317.2	285.5	31.62	10.031	
6,700.0	6,495.4	6,758.5	6,558.4	16.9	17.1	-102.93	461.3	-15.6	317.7	285.3	32.46	9.789	
6,750.0	6,515.1	6,813.7	6,582.4	17.5	17.5	-103.34	461.3	34.1	318.3	284.8	33.48	9.505	
6,800.0	6,531.7	6,869.1	6,602.8	18.1	18.0	-103.68	461.3	85.5	318.7	284.0	34.69	9.187	
6,850.0	6,545.2	6,924.6	6,619.4	18.8	18.8	-103.96	461.3	138.5	319.1	283.0	36.08	8.844	
6,900.0	6,555.5	6,980.2	6,632.2	19.6	19.6	-104.17	461.3	192.6	319.4	281.8	37.63	8.489	
6,950.0	6,562.6	7,036.0	6,641.1	20.5	20.6	-104.32	461.3	247.6	319.6	280.3	39.32	8.127	
7,000.0	6,566.5	7,091.8	6,645.9	21.4	21.6	-104.40	461.3	303.2	319.7	278.6	41.14	7.771	
7,037.2	6,567.2	7,133.2	6,646.8	22.1	22.4	-104.42	461.3	344.6	319.7	277.2	42.56	7.512	
7,100.0	6,566.9	7,196.2	6,646.5	23.3	23.6	-104.41	461.3	407.6	319.7	274.7	44.98	7.109	
7,200.0	6,566.5	7,296.2	6,646.0	25.5	25.7	-104.39	461.3	507.6	319.7	270.6	49.06	6.516	
7,300.0	6,566.1	7,396.2	6,645.4	27.7	27.9	-104.37	461.3	607.5	319.7	266.3	53.39	5.987	
7,400.0	6,565.6	7,496.2	6,644.9	30.0	30.3	-104.35	461.3	707.5	319.6	261.7	57.92	5.519	
7,500.0	6,565.2	7,596.2	6,644.3	32.4	32.7	-104.34	461.3	807.5	319.6	257.0	62.59	5.107	
7,600.0	6,564.8	7,696.2	6,643.8	34.9	35.1	-104.32	461.3	907.5	319.6	252.2	67.38	4.743	
7,700.0	6,564.3	7,796.2	6,643.3	37.4	37.6	-104.30	461.3	1,007.5	319.6	247.3	72.27	4.422	
7,800.0	6,563.9	7,896.2	6,642.7	40.0	40.2	-104.28	461.3	1,107.5	319.5	242.3	77.23	4.137	
7,900.0	6,563.4	7,996.2	6,642.2	42.5	42.7	-104.26	461.3	1,207.5	319.5	237.3	82.26	3.884	
8,000.0	6,563.0	8,096.2	6,641.6	45.2	45.3	-104.25	461.3	1,307.5	319.5	232.1	87.34	3.658	
8,100.0	6,562.6	8,196.2	6,641.1	47.8	48.0	-104.23	461.3	1,407.5	319.5	227.0	92.47	3.455	
8,200.0	6,562.1	8,296.2	6,640.5	50.4	50.6	-104.21	461.3	1,507.5	319.4	221.8	97.63	3.272	
8,300.0	6,561.7	8,396.2	6,640.0	53.1	53.3	-104.19	461.3	1,607.5	319.4	216.6	102.82	3.106	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,400.0	6,561.3	8,496.2	6,639.5	55.8	56.0	-104.17	461.3	1,707.5	319.4	211.3	108.05	2.956	
8,500.0	6,560.8	8,596.2	6,638.9	58.5	58.6	-104.15	461.3	1,807.5	319.4	206.1	113.29	2.819	
8,600.0	6,560.4	8,696.2	6,638.4	61.2	61.3	-104.14	461.3	1,907.5	319.3	200.8	118.56	2.693	
8,700.0	6,560.0	8,796.2	6,637.8	63.9	64.1	-104.12	461.3	2,007.5	319.3	195.5	123.84	2.578	
8,800.0	6,559.5	8,896.2	6,637.3	66.6	66.8	-104.10	461.3	2,107.5	319.3	190.1	129.14	2.472	
8,900.0	6,559.1	8,996.2	6,636.8	69.4	69.5	-104.08	461.3	2,207.5	319.3	184.8	134.46	2.374	
9,000.0	6,558.6	9,096.2	6,636.2	72.1	72.2	-104.06	461.3	2,307.5	319.2	179.4	139.79	2.284	
9,100.0	6,558.2	9,196.2	6,635.7	74.8	75.0	-104.05	461.3	2,407.5	319.2	174.1	145.13	2.199	
9,200.0	6,557.8	9,296.2	6,635.1	77.6	77.7	-104.03	461.3	2,507.5	319.2	168.7	150.48	2.121	
9,300.0	6,557.3	9,396.2	6,634.6	80.3	80.5	-104.01	461.3	2,607.5	319.2	163.3	155.84	2.048	
9,400.0	6,556.9	9,496.2	6,634.1	83.1	83.2	-103.99	461.3	2,707.5	319.1	157.9	161.20	1.980	
9,500.0	6,556.5	9,596.2	6,633.5	85.8	86.0	-103.97	461.3	2,807.5	319.1	152.5	166.58	1.916	
9,600.0	6,556.0	9,696.2	6,633.0	88.6	88.7	-103.95	461.3	2,907.5	319.1	147.1	171.96	1.856	
9,700.0	6,555.6	9,796.2	6,632.4	91.4	91.5	-103.94	461.3	3,007.5	319.1	141.7	177.35	1.799	
9,800.0	6,555.2	9,896.2	6,631.9	94.1	94.2	-103.92	461.3	3,107.5	319.0	136.3	182.74	1.746	
9,900.0	6,554.7	9,996.2	6,631.3	96.9	97.0	-103.90	461.3	3,207.5	319.0	130.9	188.14	1.696	
10,000.0	6,554.3	10,096.2	6,630.8	99.7	99.8	-103.88	461.3	3,307.5	319.0	125.4	193.55	1.648	
10,100.0	6,553.8	10,196.2	6,630.3	102.5	102.5	-103.86	461.3	3,407.5	319.0	120.0	198.96	1.603	
10,200.0	6,553.4	10,296.2	6,629.7	105.2	105.3	-103.84	461.3	3,507.5	318.9	114.6	204.37	1.561	
10,300.0	6,553.0	10,396.2	6,629.2	108.0	108.1	-103.83	461.3	3,607.5	318.9	109.1	209.79	1.520	
10,400.0	6,552.5	10,496.2	6,628.6	110.8	110.9	-103.81	461.3	3,707.5	318.9	103.7	215.21	1.482	Level 3
10,500.0	6,552.1	10,596.2	6,628.1	113.6	113.7	-103.79	461.3	3,807.5	318.9	98.2	220.64	1.445	Level 3
10,600.0	6,551.7	10,696.2	6,627.6	116.4	116.4	-103.77	461.3	3,907.5	318.8	92.8	226.07	1.410	Level 3
10,700.0	6,551.2	10,796.2	6,627.0	119.1	119.2	-103.75	461.3	4,007.5	318.8	87.3	231.50	1.377	Level 3
10,800.0	6,550.8	10,896.2	6,626.5	121.9	122.0	-103.73	461.3	4,107.5	318.8	81.8	236.94	1.345	Level 3
10,900.0	6,550.4	10,996.2	6,625.9	124.7	124.8	-103.72	461.3	4,207.5	318.8	76.4	242.38	1.315	Level 3
11,000.0	6,549.9	11,096.2	6,625.4	127.5	127.6	-103.70	461.3	4,307.5	318.7	70.9	247.82	1.286	Level 3
11,100.0	6,549.5	11,196.2	6,624.9	130.3	130.3	-103.68	461.3	4,407.5	318.7	65.4	253.27	1.258	Level 3
11,200.0	6,549.0	11,296.2	6,624.3	133.1	133.1	-103.66	461.3	4,507.5	318.7	60.0	258.71	1.232	Level 2
11,300.0	6,548.6	11,396.2	6,623.8	135.9	135.9	-103.64	461.3	4,607.5	318.7	54.5	264.16	1.206	Level 2
11,400.0	6,548.2	11,496.2	6,623.2	138.7	138.7	-103.62	461.3	4,707.5	318.6	49.0	269.62	1.182	Level 2
11,500.0	6,547.7	11,596.2	6,622.7	141.4	141.5	-103.61	461.3	4,807.5	318.6	43.5	275.07	1.158	Level 2
11,600.0	6,547.3	11,696.2	6,622.2	144.2	144.3	-103.59	461.3	4,907.5	318.6	38.1	280.53	1.136	Level 2
11,700.0	6,546.9	11,796.2	6,621.6	147.0	147.1	-103.57	461.3	5,007.5	318.6	32.6	285.99	1.114	Level 2
11,800.0	6,546.4	11,896.2	6,621.1	149.8	149.9	-103.55	461.3	5,107.5	318.5	27.1	291.45	1.093	Level 2
11,900.0	6,546.0	11,996.2	6,620.5	152.6	152.7	-103.53	461.3	5,207.5	318.5	21.6	296.91	1.073	Level 2
12,000.0	6,545.6	12,096.2	6,620.0	155.4	155.5	-103.52	461.3	5,307.5	318.5	16.1	302.37	1.053	Level 2
12,100.0	6,545.1	12,196.2	6,619.4	158.2	158.3	-103.50	461.3	5,407.5	318.5	10.6	307.84	1.034	Level 2
12,200.0	6,544.7	12,296.2	6,618.9	161.0	161.1	-103.48	461.3	5,507.5	318.4	5.1	313.31	1.016	Level 2
12,300.0	6,544.2	12,396.2	6,618.4	163.8	163.8	-103.46	461.3	5,607.5	318.4	-0.4	318.78	0.999	Level 1
12,400.0	6,543.8	12,496.2	6,617.8	166.6	166.6	-103.44	461.3	5,707.5	318.4	-5.9	324.25	0.982	Level 1
12,500.0	6,543.4	12,596.2	6,617.3	169.4	169.4	-103.42	461.3	5,807.5	318.4	-11.4	329.72	0.966	Level 1
12,600.0	6,542.9	12,696.2	6,616.7	172.2	172.2	-103.41	461.3	5,907.5	318.3	-16.9	335.20	0.950	Level 1
12,700.0	6,542.5	12,796.2	6,616.2	175.0	175.0	-103.39	461.3	6,007.5	318.3	-22.4	340.67	0.934	Level 1
12,800.0	6,542.1	12,896.2	6,615.7	177.8	177.8	-103.37	461.3	6,107.5	318.3	-27.9	346.15	0.920	Level 1
12,900.0	6,541.6	12,996.2	6,615.1	180.6	180.6	-103.35	461.3	6,207.5	318.3	-33.4	351.63	0.905	Level 1
13,000.0	6,541.2	13,096.2	6,614.6	183.4	183.4	-103.33	461.3	6,307.5	318.2	-38.9	357.11	0.891	Level 1
13,100.0	6,540.8	13,196.2	6,614.0	186.2	186.2	-103.31	461.3	6,407.5	318.2	-44.4	362.59	0.878	Level 1
13,200.0	6,540.3	13,296.2	6,613.5	189.0	189.0	-103.30	461.3	6,507.5	318.2	-49.9	368.07	0.864	Level 1
13,300.0	6,539.9	13,396.2	6,613.0	191.8	191.8	-103.28	461.3	6,607.5	318.2	-55.4	373.56	0.852	Level 1
13,400.0	6,539.4	13,496.2	6,612.4	194.6	194.6	-103.26	461.3	6,707.5	318.1	-60.9	379.04	0.839	Level 1

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 Extension (3-3-16)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,500.0	6,539.0	13,596.2	6,611.9	197.4	197.4	-103.24	461.3	6,807.5	318.1	-66.4	384.53	0.827	Level 1
13,600.0	6,538.6	13,696.2	6,611.3	200.2	200.2	-103.22	461.3	6,907.5	318.1	-71.9	390.02	0.816	Level 1
13,700.0	6,538.1	13,796.2	6,610.8	203.0	203.0	-103.20	461.3	7,007.5	318.1	-77.4	395.51	0.804	Level 1
13,800.0	6,537.7	13,896.2	6,610.2	205.8	205.8	-103.18	461.3	7,107.5	318.0	-83.0	401.00	0.793	Level 1
13,900.0	6,537.3	13,996.2	6,609.7	208.6	208.6	-103.17	461.3	7,207.4	318.0	-88.5	406.49	0.782	Level 1
14,000.0	6,536.8	14,096.2	6,609.2	211.4	211.4	-103.15	461.3	7,307.4	318.0	-94.0	411.99	0.772	Level 1
14,100.0	6,536.4	14,196.2	6,608.6	214.2	214.2	-103.13	461.3	7,407.4	318.0	-99.5	417.48	0.762	Level 1
14,200.0	6,536.0	14,296.2	6,608.1	217.0	217.0	-103.11	461.3	7,507.4	318.0	-105.0	422.98	0.752	Level 1
14,300.0	6,535.5	14,396.2	6,607.5	219.8	219.8	-103.09	461.3	7,607.4	317.9	-110.5	428.47	0.742	Level 1
14,400.0	6,535.1	14,496.2	6,607.0	222.6	222.6	-103.07	461.3	7,707.4	317.9	-116.1	433.97	0.733	Level 1
14,500.0	6,534.6	14,596.1	6,606.5	225.4	225.4	-103.06	461.3	7,807.4	317.9	-121.6	439.47	0.723	Level 1
14,600.0	6,534.2	14,696.1	6,605.9	228.2	228.2	-103.04	461.3	7,907.4	317.9	-127.1	444.97	0.714	Level 1
14,700.0	6,533.8	14,796.1	6,605.4	231.0	231.0	-103.02	461.3	8,007.4	317.8	-132.6	450.47	0.706	Level 1
14,800.0	6,533.3	14,896.1	6,604.8	233.8	233.8	-103.00	461.3	8,107.4	317.8	-138.2	455.97	0.697	Level 1
14,900.0	6,532.9	14,996.1	6,604.3	236.6	236.6	-102.98	461.3	8,207.4	317.8	-143.7	461.48	0.689	Level 1
15,000.0	6,532.5	15,096.1	6,603.8	239.4	239.4	-102.96	461.3	8,307.4	317.8	-149.2	466.98	0.680	Level 1
15,100.0	6,532.0	15,196.1	6,603.2	242.2	242.2	-102.95	461.3	8,407.4	317.7	-154.7	472.48	0.672	Level 1
15,200.0	6,531.6	15,296.1	6,602.7	245.0	245.0	-102.93	461.3	8,507.4	317.7	-160.3	477.99	0.665	Level 1
15,300.0	6,531.2	15,396.1	6,602.1	247.8	247.9	-102.91	461.3	8,607.4	317.7	-165.8	483.50	0.657	Level 1
15,400.0	6,530.7	15,496.1	6,601.6	250.6	250.7	-102.89	461.3	8,707.4	317.7	-171.3	489.01	0.650	Level 1
15,500.0	6,530.3	15,596.1	6,601.0	253.4	253.5	-102.87	461.3	8,807.4	317.6	-176.9	494.51	0.642	Level 1
15,600.0	6,529.8	15,696.1	6,600.5	256.2	256.3	-102.85	461.3	8,907.4	317.6	-182.4	500.02	0.635	Level 1
15,700.0	6,529.4	15,796.1	6,600.0	259.0	259.1	-102.84	461.3	9,007.4	317.6	-187.9	505.53	0.628	Level 1
15,800.0	6,529.0	15,896.1	6,599.4	261.8	261.9	-102.82	461.3	9,107.4	317.6	-193.5	511.05	0.621	Level 1
15,900.0	6,528.5	15,996.1	6,598.9	264.7	264.7	-102.80	461.3	9,207.4	317.6	-199.0	516.56	0.615	Level 1
16,000.0	6,528.1	16,096.1	6,598.3	267.5	267.5	-102.78	461.3	9,307.4	317.5	-204.5	522.07	0.608	Level 1
16,100.0	6,527.7	16,196.1	6,597.8	270.3	270.3	-102.76	461.3	9,407.4	317.5	-210.1	527.59	0.602	Level 1
16,200.0	6,527.2	16,296.1	6,597.3	273.1	273.1	-102.74	461.3	9,507.4	317.5	-215.6	533.10	0.596	Level 1
16,239.2	6,527.1	16,335.3	6,597.0	274.2	274.2	-102.74	461.3	9,546.6	317.5	-217.8	535.26	0.593	Level 1
16,253.1	6,527.0	16,344.5	6,597.0	274.6	274.4	-102.73	461.3	9,555.8	317.5	-218.4	535.90	0.592	Level 1, ES, SF

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	129.32	-18.9	23.1	29.9				
100.0	100.0	100.0	100.0	0.1	0.1	129.32	-18.9	23.1	29.9	29.7	0.22	133.008	
200.0	200.0	200.0	200.0	0.3	0.3	129.32	-18.9	23.1	29.9	29.2	0.67	44.336	
300.0	300.0	300.0	300.0	0.6	0.6	129.32	-18.9	23.1	29.9	28.8	1.12	26.602	
400.0	400.0	400.0	400.0	0.8	0.8	129.32	-18.9	23.1	29.9	28.3	1.57	19.001	
500.0	500.0	500.0	500.0	1.0	1.0	129.32	-18.9	23.1	29.9	27.9	2.02	14.779	
600.0	600.0	600.0	600.0	1.2	1.2	129.32	-18.9	23.1	29.9	27.4	2.47	12.092	
700.0	700.0	700.0	700.0	1.5	1.5	129.32	-18.9	23.1	29.9	27.0	2.92	10.231	
800.0	800.0	800.0	800.0	1.7	1.7	129.32	-18.9	23.1	29.9	26.5	3.37	8.867	
900.0	900.0	900.0	900.0	1.9	1.9	129.32	-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	129.32	-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	129.32	-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	129.32	-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	129.32	-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	129.32	-18.9	23.1	29.9	23.8	6.07	4.926	
1,500.0	1,500.0	1,500.2	1,500.2	3.3	3.2	131.76	-19.7	22.0	29.5	23.0	6.50	4.548	
1,600.0	1,600.0	1,600.3	1,600.2	3.5	3.4	139.37	-21.9	18.8	28.8	21.9	6.91	4.174	
1,620.3	1,620.3	1,620.5	1,620.4	3.5	3.5	-148.20	-22.5	17.9	28.8	21.8	6.99	4.116	CC
1,700.0	1,700.0	1,700.1	1,699.8	3.7	3.6	-139.02	-25.5	13.4	29.8	22.5	7.32	4.071	
1,800.0	1,799.9	1,799.7	1,798.9	3.9	3.8	-127.95	-30.6	5.8	34.1	26.4	7.74	4.414	
1,900.0	1,899.7	1,898.9	1,897.5	4.1	4.1	-119.42	-37.1	-3.8	41.8	33.6	8.17	5.116	
2,000.0	1,999.3	1,997.7	1,995.2	4.4	4.3	-113.72	-45.0	-15.6	52.4	43.8	8.63	6.074	
2,100.0	2,098.6	2,096.8	2,093.1	4.6	4.6	-110.95	-53.8	-28.5	65.1	56.0	9.11	7.140	
2,146.1	2,144.3	2,142.5	2,138.2	4.7	4.7	-110.65	-57.8	-34.5	71.2	61.9	9.35	7.623	
2,200.0	2,197.6	2,195.8	2,190.9	4.8	4.8	-110.67	-62.5	-41.5	78.6	68.9	9.63	8.163	
2,300.0	2,296.6	2,294.9	2,288.8	5.1	5.1	-110.69	-71.2	-54.4	92.2	82.0	10.16	9.073	
2,400.0	2,395.6	2,394.0	2,386.6	5.4	5.4	-110.71	-80.0	-67.3	105.8	95.1	10.71	9.876	
2,500.0	2,494.5	2,493.1	2,484.4	5.7	5.8	-110.73	-88.7	-80.3	119.4	108.1	11.27	10.588	
2,600.0	2,593.5	2,592.1	2,582.3	6.0	6.1	-110.74	-97.5	-93.2	133.0	121.1	11.85	11.219	
2,700.0	2,692.5	2,691.2	2,680.1	6.3	6.4	-110.75	-106.2	-106.2	146.6	134.1	12.44	11.782	
2,800.0	2,791.5	2,790.3	2,777.9	6.6	6.7	-110.75	-114.9	-119.1	160.2	147.1	13.04	12.285	
2,900.0	2,890.4	2,889.3	2,875.8	6.9	7.1	-110.76	-123.7	-132.1	173.8	160.1	13.64	12.737	
3,000.0	2,989.4	2,988.4	2,973.6	7.2	7.4	-110.77	-132.4	-145.0	187.4	173.1	14.26	13.144	
3,100.0	3,088.4	3,087.5	3,071.4	7.5	7.8	-110.77	-141.1	-158.0	201.0	186.1	14.87	13.512	
3,200.0	3,187.4	3,186.6	3,169.2	7.8	8.1	-110.77	-149.9	-170.9	214.6	199.1	15.50	13.845	
3,300.0	3,286.4	3,285.6	3,267.1	8.2	8.5	-110.78	-158.6	-183.9	228.2	212.0	16.13	14.149	
3,400.0	3,385.3	3,384.7	3,364.9	8.5	8.8	-110.78	-167.3	-196.8	241.8	225.0	16.76	14.426	
3,500.0	3,484.3	3,483.8	3,462.7	8.8	9.2	-110.78	-176.1	-209.8	255.4	238.0	17.40	14.679	
3,600.0	3,583.3	3,582.8	3,560.6	9.1	9.5	-110.79	-184.8	-222.7	269.0	250.9	18.04	14.913	
3,700.0	3,682.3	3,681.9	3,658.4	9.5	9.9	-110.79	-193.6	-235.7	282.6	263.9	18.68	15.127	
3,800.0	3,781.3	3,781.0	3,756.2	9.8	10.2	-110.79	-202.3	-248.6	296.2	276.8	19.33	15.325	
3,900.0	3,880.2	3,880.1	3,854.1	10.1	10.6	-110.79	-211.0	-261.6	309.8	289.8	19.97	15.509	
4,000.0	3,979.2	3,979.1	3,951.9	10.5	11.0	-110.79	-219.8	-274.5	323.4	302.7	20.62	15.679	
4,100.0	4,078.2	4,078.2	4,049.7	10.8	11.3	-110.80	-228.5	-287.5	337.0	315.7	21.28	15.837	
4,200.0	4,177.2	4,177.3	4,147.6	11.1	11.7	-110.80	-237.2	-300.4	350.6	328.6	21.93	15.985	
4,300.0	4,276.2	4,276.3	4,245.4	11.5	12.1	-110.80	-246.0	-313.4	364.2	341.6	22.59	16.122	
4,400.0	4,375.1	4,375.4	4,343.2	11.8	12.4	-110.80	-254.7	-326.3	377.8	354.5	23.24	16.251	
4,500.0	4,474.1	4,474.5	4,441.1	12.2	12.8	-110.80	-263.4	-339.3	391.4	367.5	23.90	16.372	
4,600.0	4,573.1	4,573.5	4,538.9	12.5	13.1	-110.80	-272.2	-352.2	405.0	380.4	24.56	16.486	
4,700.0	4,672.1	4,672.6	4,636.7	12.8	13.5	-110.80	-280.9	-365.2	418.6	393.3	25.23	16.592	
4,800.0	4,771.1	4,771.7	4,734.6	13.2	13.9	-110.80	-289.6	-378.1	432.2	406.3	25.89	16.693	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,820.9	4,791.8	4,792.4	4,755.1	13.2	14.0	-110.81	-291.5	-380.8	435.0	409.0	26.03	16.713	
4,900.0	4,870.2	4,870.8	4,832.4	13.5	14.3	-110.87	-298.4	-391.1	445.4	418.8	26.53	16.789	
5,000.0	4,969.7	4,977.9	4,938.4	13.7	14.6	-110.66	-307.0	-403.9	456.7	429.6	27.04	16.891	
5,100.0	5,069.5	5,087.1	5,047.0	13.9	14.8	-110.39	-313.6	-413.6	464.8	437.3	27.48	16.913	
5,200.0	5,169.5	5,196.8	5,156.4	14.1	15.0	-110.06	-317.8	-419.9	469.6	441.7	27.86	16.853	
5,230.5	5,200.0	5,230.4	5,189.9	14.1	15.1	179.77	-318.7	-421.1	470.4	445.7	24.67	19.066	
5,300.0	5,269.5	5,306.8	5,266.4	14.2	15.2	179.96	-319.7	-422.7	471.3	446.4	24.94	18.897	
5,400.0	5,369.5	5,409.9	5,369.5	14.4	15.4	179.98	-319.8	-422.9	471.4	446.1	25.33	18.613	
5,500.0	5,469.5	5,509.9	5,469.5	14.6	15.5	179.98	-319.8	-422.9	471.4	445.7	25.71	18.339	
5,600.0	5,569.5	5,609.9	5,569.5	14.8	15.7	179.98	-319.8	-422.9	471.4	445.3	26.09	18.071	
5,700.0	5,669.5	5,709.9	5,669.5	14.9	15.8	179.98	-319.8	-422.9	471.4	445.0	26.47	17.810	
5,800.0	5,769.5	5,809.9	5,769.5	15.1	16.0	179.98	-319.8	-422.9	471.4	444.6	26.86	17.555	
5,822.4	5,791.8	5,832.3	5,791.8	15.2	16.0	179.98	-319.8	-422.9	471.4	444.5	26.94	17.498	
5,833.8	5,803.3	5,843.7	5,803.3	15.2	16.0	179.98	-319.8	-422.9	471.4	444.4	26.99	17.470	
5,850.0	5,819.5	5,859.9	5,819.4	15.2	16.1	89.98	-319.8	-422.7	471.4	441.3	30.12	15.653	
5,900.0	5,869.4	5,909.9	5,869.4	15.3	16.1	89.98	-319.8	-420.0	471.4	441.2	30.23	15.593	
5,950.0	5,919.0	5,959.9	5,919.0	15.3	16.2	89.98	-319.8	-414.0	471.4	441.1	30.30	15.557	
6,000.0	5,968.1	6,009.9	5,968.1	15.3	16.2	89.97	-319.8	-404.8	471.4	441.1	30.33	15.542	
6,050.0	6,016.6	6,059.9	6,016.5	15.3	16.2	89.97	-319.8	-392.4	471.4	441.1	30.33	15.544	
6,100.0	6,064.1	6,109.8	6,064.0	15.3	16.1	89.97	-319.8	-376.8	471.4	441.1	30.30	15.561	
6,150.0	6,110.5	6,159.8	6,110.4	15.3	16.1	89.96	-319.8	-358.2	471.4	441.2	30.25	15.586	
6,200.0	6,155.6	6,209.8	6,155.4	15.3	16.1	89.96	-319.8	-336.6	471.4	441.2	30.19	15.613	
6,250.0	6,199.2	6,259.8	6,199.0	15.2	16.0	89.96	-319.8	-312.1	471.4	441.3	30.15	15.636	
6,300.0	6,241.1	6,309.8	6,240.8	15.2	16.0	89.95	-319.8	-284.8	471.4	441.3	30.14	15.643	
6,350.0	6,281.1	6,359.7	6,280.8	15.3	15.9	89.95	-319.8	-254.8	471.4	441.3	30.17	15.626	
6,400.0	6,319.0	6,409.7	6,318.7	15.3	15.9	89.95	-319.8	-222.3	471.4	441.2	30.27	15.573	
6,450.0	6,354.8	6,459.7	6,354.5	15.4	15.9	89.95	-319.8	-187.4	471.4	441.0	30.47	15.473	
6,500.0	6,388.2	6,509.6	6,387.8	15.5	15.9	89.94	-319.8	-150.2	471.4	440.7	30.78	15.317	
6,550.0	6,419.1	6,559.6	6,418.7	15.7	16.0	89.94	-319.8	-110.9	471.4	440.2	31.22	15.098	
6,600.0	6,447.3	6,609.6	6,446.9	16.0	16.2	89.94	-319.8	-69.7	471.4	439.6	31.82	14.814	
6,650.0	6,472.8	6,659.6	6,472.4	16.4	16.4	89.94	-319.8	-26.7	471.4	438.8	32.59	14.467	
6,700.0	6,495.4	6,709.5	6,495.0	16.9	16.8	89.94	-319.8	17.9	471.4	437.9	33.52	14.062	
6,750.0	6,515.1	6,759.5	6,514.6	17.5	17.3	89.94	-319.8	63.8	471.4	436.8	34.64	13.611	
6,800.0	6,531.7	6,809.5	6,531.2	18.1	17.9	89.94	-319.8	110.9	471.4	435.5	35.92	13.126	
6,850.0	6,545.2	6,859.4	6,544.7	18.8	18.5	89.94	-319.8	159.0	471.4	434.1	37.35	12.620	
6,900.0	6,555.5	6,909.4	6,555.0	19.6	19.3	89.94	-319.8	207.9	471.4	432.5	38.94	12.108	
6,950.0	6,562.6	6,959.4	6,562.1	20.5	20.2	89.94	-319.8	257.3	471.4	430.8	40.64	11.599	
7,000.0	6,566.5	7,009.3	6,566.0	21.4	21.1	89.94	-319.8	307.2	471.4	429.0	42.46	11.104	
7,037.2	6,567.2	7,046.5	6,566.7	22.1	21.8	89.94	-319.8	344.3	471.4	427.6	43.86	10.750	
7,065.7	6,567.1	7,075.0	6,566.6	22.7	22.3	89.94	-319.8	372.9	471.4	426.5	44.98	10.481	
7,100.0	6,566.9	7,109.3	6,566.4	23.3	23.0	89.93	-319.8	407.1	471.4	425.1	46.34	10.173	
7,200.0	6,566.5	7,209.3	6,565.8	25.5	25.1	89.91	-319.8	507.1	471.4	420.9	50.54	9.328	
7,300.0	6,566.1	7,309.3	6,565.2	27.7	27.3	89.89	-319.8	607.1	471.4	416.4	55.00	8.572	
7,400.0	6,565.6	7,409.3	6,564.6	30.0	29.7	89.87	-319.8	707.1	471.4	411.8	59.65	7.903	
7,500.0	6,565.2	7,509.3	6,564.0	32.4	32.1	89.85	-319.8	807.1	471.4	407.0	64.46	7.314	
7,600.0	6,564.8	7,609.3	6,563.4	34.9	34.5	89.83	-319.8	907.1	471.4	402.0	69.39	6.794	
7,700.0	6,564.3	7,709.3	6,562.8	37.4	37.1	89.81	-319.8	1,007.1	471.4	397.0	74.41	6.335	
7,800.0	6,563.9	7,809.3	6,562.2	40.0	39.6	89.80	-319.8	1,107.1	471.4	391.9	79.52	5.928	
7,900.0	6,563.4	7,909.3	6,561.6	42.5	42.2	89.78	-319.8	1,207.1	471.4	386.7	84.69	5.566	
8,000.0	6,563.0	8,009.3	6,561.0	45.2	44.8	89.76	-319.8	1,307.1	471.4	381.5	89.92	5.243	
8,100.0	6,562.6	8,109.3	6,560.4	47.8	47.4	89.74	-319.8	1,407.1	471.4	376.2	95.19	4.953	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,200.0	6,562.1	8,209.3	6,559.8	50.4	50.1	89.72	-319.8	1,507.1	471.4	370.9	100.50	4.691	
8,300.0	6,561.7	8,309.3	6,559.2	53.1	52.8	89.70	-319.8	1,607.1	471.4	365.6	105.84	4.454	
8,400.0	6,561.3	8,409.3	6,558.6	55.8	55.5	89.68	-319.8	1,707.1	471.4	360.2	111.21	4.239	
8,500.0	6,560.8	8,509.3	6,558.0	58.5	58.2	89.66	-319.8	1,807.1	471.4	354.8	116.60	4.043	
8,600.0	6,560.4	8,609.3	6,557.5	61.2	60.9	89.64	-319.8	1,907.1	471.4	349.4	122.01	3.864	
8,700.0	6,560.0	8,709.3	6,556.9	63.9	63.6	89.62	-319.8	2,007.1	471.4	344.0	127.44	3.699	
8,800.0	6,559.5	8,809.3	6,556.3	66.6	66.3	89.60	-319.8	2,107.1	471.4	338.6	132.89	3.548	
8,900.0	6,559.1	8,909.3	6,555.7	69.4	69.0	89.59	-319.8	2,207.1	471.4	333.1	138.34	3.408	
9,000.0	6,558.6	9,009.3	6,555.1	72.1	71.8	89.57	-319.8	2,307.1	471.4	327.6	143.82	3.278	
9,100.0	6,558.2	9,109.3	6,554.5	74.8	74.5	89.55	-319.8	2,407.1	471.4	322.1	149.30	3.158	
9,200.0	6,557.8	9,209.3	6,553.9	77.6	77.3	89.53	-319.8	2,507.1	471.4	316.7	154.79	3.046	
9,300.0	6,557.3	9,309.3	6,553.3	80.3	80.0	89.51	-319.8	2,607.1	471.4	311.2	160.29	2.941	
9,400.0	6,556.9	9,409.3	6,552.7	83.1	82.8	89.49	-319.8	2,707.1	471.4	305.6	165.80	2.843	
9,500.0	6,556.5	9,509.3	6,552.1	85.8	85.5	89.47	-319.8	2,807.1	471.4	300.1	171.32	2.752	
9,600.0	6,556.0	9,609.3	6,551.5	88.6	88.3	89.45	-319.8	2,907.1	471.4	294.6	176.84	2.666	
9,700.0	6,555.6	9,709.3	6,550.9	91.4	91.0	89.43	-319.8	3,007.1	471.5	289.1	182.37	2.585	
9,800.0	6,555.2	9,809.3	6,550.3	94.1	93.8	89.41	-319.8	3,107.1	471.5	283.5	187.90	2.509	
9,900.0	6,554.7	9,909.3	6,549.7	96.9	96.6	89.39	-319.8	3,207.1	471.5	278.0	193.44	2.437	
10,000.0	6,554.3	10,009.3	6,549.1	99.7	99.3	89.38	-319.8	3,307.1	471.5	272.5	198.99	2.369	
10,100.0	6,553.8	10,109.3	6,548.6	102.5	102.1	89.36	-319.8	3,407.1	471.5	266.9	204.53	2.305	
10,200.0	6,553.4	10,209.3	6,548.0	105.2	104.9	89.34	-319.8	3,507.1	471.5	261.4	210.08	2.244	
10,300.0	6,553.0	10,309.3	6,547.4	108.0	107.7	89.32	-319.8	3,607.1	471.5	255.8	215.64	2.186	
10,400.0	6,552.5	10,409.3	6,546.8	110.8	110.5	89.30	-319.8	3,707.1	471.5	250.3	221.20	2.131	
10,500.0	6,552.1	10,509.3	6,546.2	113.6	113.2	89.28	-319.8	3,807.1	471.5	244.7	226.76	2.079	
10,600.0	6,551.7	10,609.3	6,545.6	116.4	116.0	89.26	-319.8	3,907.1	471.5	239.1	232.32	2.029	
10,700.0	6,551.2	10,709.3	6,545.0	119.1	118.8	89.24	-319.8	4,007.1	471.5	233.6	237.89	1.982	
10,800.0	6,550.8	10,809.3	6,544.4	121.9	121.6	89.22	-319.8	4,107.1	471.5	228.0	243.45	1.937	
10,900.0	6,550.4	10,909.3	6,543.8	124.7	124.4	89.20	-319.8	4,207.0	471.5	222.4	249.02	1.893	
11,000.0	6,549.9	11,009.3	6,543.2	127.5	127.2	89.18	-319.8	4,307.0	471.5	216.9	254.60	1.852	
11,100.0	6,549.5	11,109.3	6,542.6	130.3	129.9	89.17	-319.8	4,407.0	471.5	211.3	260.17	1.812	
11,200.0	6,549.0	11,209.3	6,542.0	133.1	132.7	89.15	-319.8	4,507.0	471.5	205.7	265.75	1.774	
11,300.0	6,548.6	11,309.3	6,541.4	135.9	135.5	89.13	-319.8	4,607.0	471.5	200.2	271.33	1.738	
11,400.0	6,548.2	11,409.3	6,540.8	138.7	138.3	89.11	-319.8	4,707.0	471.5	194.6	276.90	1.703	
11,500.0	6,547.7	11,509.3	6,540.2	141.4	141.1	89.09	-319.8	4,807.0	471.5	189.0	282.48	1.669	
11,600.0	6,547.3	11,609.3	6,539.7	144.2	143.9	89.07	-319.8	4,907.0	471.5	183.4	288.07	1.637	
11,700.0	6,546.9	11,709.3	6,539.1	147.0	146.7	89.05	-319.8	5,007.0	471.5	177.8	293.65	1.606	
11,800.0	6,546.4	11,809.3	6,538.5	149.8	149.5	89.03	-319.8	5,107.0	471.5	172.3	299.23	1.576	
11,900.0	6,546.0	11,909.3	6,537.9	152.6	152.3	89.01	-319.8	5,207.0	471.5	166.7	304.82	1.547	
12,000.0	6,545.6	12,009.3	6,537.3	155.4	155.1	88.99	-319.8	5,307.0	471.5	161.1	310.41	1.519	
12,100.0	6,545.1	12,109.3	6,536.7	158.2	157.9	88.97	-319.8	5,407.0	471.5	155.5	315.99	1.492	Level 3
12,200.0	6,544.7	12,209.3	6,536.1	161.0	160.7	88.96	-319.8	5,507.0	471.5	149.9	321.58	1.466	Level 3
12,300.0	6,544.2	12,309.3	6,535.5	163.8	163.5	88.94	-319.8	5,607.0	471.5	144.3	327.17	1.441	Level 3
12,400.0	6,543.8	12,409.3	6,534.9	166.6	166.3	88.92	-319.8	5,707.0	471.5	138.7	332.76	1.417	Level 3
12,500.0	6,543.4	12,509.3	6,534.3	169.4	169.1	88.90	-319.8	5,807.0	471.5	133.2	338.35	1.394	Level 3
12,600.0	6,542.9	12,609.3	6,533.7	172.2	171.9	88.88	-319.8	5,907.0	471.5	127.6	343.95	1.371	Level 3
12,700.0	6,542.5	12,709.3	6,533.1	175.0	174.6	88.86	-319.8	6,007.0	471.5	122.0	349.54	1.349	Level 3
12,800.0	6,542.1	12,809.3	6,532.5	177.8	177.4	88.84	-319.8	6,107.0	471.5	116.4	355.13	1.328	Level 3
12,900.0	6,541.6	12,909.3	6,531.9	180.6	180.2	88.82	-319.8	6,207.0	471.5	110.8	360.72	1.307	Level 3
13,000.0	6,541.2	13,009.3	6,531.3	183.4	183.0	88.80	-319.8	6,307.0	471.5	105.2	366.32	1.287	Level 3
13,100.0	6,540.8	13,109.3	6,530.8	186.2	185.8	88.78	-319.8	6,407.0	471.5	99.6	371.91	1.268	Level 3
13,200.0	6,540.3	13,209.3	6,530.2	189.0	188.6	88.76	-319.8	6,507.0	471.5	94.0	377.51	1.249	Level 2

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-202 - Wellbore #1 - Plan #1 Extension (3-3-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,300.0	6,539.9	13,309.3	6,529.6	191.8	191.4	88.75	-319.8	6,607.0	471.5	88.4	383.10	1.231	Level 2
13,400.0	6,539.4	13,409.3	6,529.0	194.6	194.2	88.73	-319.8	6,707.0	471.5	82.8	388.70	1.213	Level 2
13,500.0	6,539.0	13,509.3	6,528.4	197.4	197.0	88.71	-319.8	6,807.0	471.5	77.2	394.30	1.196	Level 2
13,600.0	6,538.6	13,609.3	6,527.8	200.2	199.8	88.69	-319.8	6,907.0	471.5	71.6	399.89	1.179	Level 2
13,700.0	6,538.1	13,709.3	6,527.2	203.0	202.6	88.67	-319.8	7,007.0	471.5	66.1	405.49	1.163	Level 2
13,800.0	6,537.7	13,809.3	6,526.6	205.8	205.4	88.65	-319.8	7,107.0	471.6	60.5	411.09	1.147	Level 2
13,900.0	6,537.3	13,909.3	6,526.0	208.6	208.2	88.63	-319.8	7,207.0	471.6	54.9	416.69	1.132	Level 2
14,000.0	6,536.8	14,009.3	6,525.4	211.4	211.0	88.61	-319.8	7,307.0	471.6	49.3	422.29	1.117	Level 2
14,100.0	6,536.4	14,109.3	6,524.8	214.2	213.9	88.59	-319.8	7,407.0	471.6	43.7	427.89	1.102	Level 2
14,200.0	6,536.0	14,209.3	6,524.2	217.0	216.7	88.57	-319.8	7,507.0	471.6	38.1	433.48	1.088	Level 2
14,300.0	6,535.5	14,309.3	6,523.6	219.8	219.5	88.55	-319.8	7,607.0	471.6	32.5	439.08	1.074	Level 2
14,400.0	6,535.1	14,409.3	6,523.0	222.6	222.3	88.54	-319.8	7,707.0	471.6	26.9	444.68	1.060	Level 2
14,500.0	6,534.6	14,509.3	6,522.4	225.4	225.1	88.52	-319.8	7,807.0	471.6	21.3	450.28	1.047	Level 2
14,600.0	6,534.2	14,609.3	6,521.8	228.2	227.9	88.50	-319.8	7,907.0	471.6	15.7	455.88	1.034	Level 2
14,700.0	6,533.8	14,709.3	6,521.3	231.0	230.7	88.48	-319.8	8,007.0	471.6	10.1	461.48	1.022	Level 2
14,800.0	6,533.3	14,809.3	6,520.7	233.8	233.5	88.46	-319.8	8,107.0	471.6	4.5	467.08	1.010	Level 2
14,900.0	6,532.9	14,909.3	6,520.1	236.6	236.3	88.44	-319.8	8,207.0	471.6	-1.1	472.68	0.998	Level 1
15,000.0	6,532.5	15,009.3	6,519.5	239.4	239.1	88.42	-319.8	8,307.0	471.6	-6.7	478.28	0.986	Level 1
15,100.0	6,532.0	15,109.3	6,518.9	242.2	241.9	88.40	-319.8	8,407.0	471.6	-12.3	483.89	0.975	Level 1
15,200.0	6,531.6	15,209.3	6,518.3	245.0	244.7	88.38	-319.8	8,507.0	471.6	-17.9	489.49	0.963	Level 1
15,300.0	6,531.2	15,309.3	6,517.7	247.8	247.5	88.36	-319.8	8,607.0	471.6	-23.5	495.09	0.953	Level 1
15,400.0	6,530.7	15,409.3	6,517.1	250.6	250.3	88.35	-319.8	8,707.0	471.6	-29.1	500.69	0.942	Level 1
15,500.0	6,530.3	15,509.3	6,516.5	253.4	253.1	88.33	-319.8	8,807.0	471.6	-34.7	506.29	0.932	Level 1
15,600.0	6,529.8	15,609.3	6,515.9	256.2	255.9	88.31	-319.8	8,907.0	471.6	-40.3	511.89	0.921	Level 1
15,700.0	6,529.4	15,709.3	6,515.3	259.0	258.7	88.29	-319.8	9,007.0	471.6	-45.9	517.49	0.911	Level 1
15,800.0	6,529.0	15,809.3	6,514.7	261.8	261.5	88.27	-319.8	9,107.0	471.6	-51.5	523.09	0.902	Level 1
15,900.0	6,528.5	15,909.3	6,514.1	264.7	264.3	88.25	-319.8	9,207.0	471.6	-57.1	528.70	0.892	Level 1
16,000.0	6,528.1	16,009.3	6,513.5	267.5	267.1	88.23	-319.8	9,307.0	471.6	-62.7	534.30	0.883	Level 1
16,100.0	6,527.7	16,109.3	6,512.9	270.3	269.9	88.21	-319.8	9,407.0	471.6	-68.3	539.90	0.874	Level 1
16,200.0	6,527.2	16,209.3	6,512.4	273.1	272.7	88.19	-319.8	9,506.9	471.6	-73.9	545.50	0.865	Level 1
16,253.1	6,527.0	16,262.4	6,512.0	274.6	274.2	88.18	-319.8	9,560.0	471.7	-76.8	548.47	0.860	Level 1, ES, SF

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	129.65	-9.5	11.4	14.8	14.8	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	129.65	-9.5	11.4	14.8	14.6	0.22	66.014	
200.0	200.0	200.0	200.0	0.3	0.3	129.65	-9.5	11.4	14.8	14.2	0.67	22.005	
300.0	300.0	300.0	300.0	0.6	0.6	129.65	-9.5	11.4	14.8	13.7	1.12	13.203	
400.0	400.0	400.0	400.0	0.8	0.8	129.65	-9.5	11.4	14.8	13.3	1.57	9.431	
500.0	500.0	500.0	500.0	1.0	1.0	129.65	-9.5	11.4	14.8	12.8	2.02	7.335	
600.0	600.0	600.0	600.0	1.2	1.2	129.65	-9.5	11.4	14.8	12.4	2.47	6.001	
700.0	700.0	700.0	700.0	1.5	1.5	129.65	-9.5	11.4	14.8	11.9	2.92	5.078	
800.0	800.0	800.0	800.0	1.7	1.7	129.65	-9.5	11.4	14.8	11.5	3.37	4.401	
900.0	900.0	900.0	900.0	1.9	1.9	129.65	-9.5	11.4	14.8	11.0	3.82	3.883	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	129.65	-9.5	11.4	14.8	10.6	4.27	3.474	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	129.65	-9.5	11.4	14.8	10.1	4.72	3.144	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	129.65	-9.5	11.4	14.8	9.7	5.17	2.870	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	129.65	-9.5	11.4	14.8	9.2	5.62	2.641	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	129.65	-9.5	11.4	14.8	8.8	6.07	2.445	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	129.65	-9.5	11.4	14.8	8.3	6.52	2.276	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	129.65	-9.5	11.4	14.8	7.9	6.97	2.129	CC
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-161.65	-9.5	11.4	16.1	8.7	7.41	2.170	
1,800.0	1,799.9	1,799.9	1,799.9	3.9	3.9	-165.21	-9.5	11.4	19.8	12.0	7.83	2.532	
1,900.0	1,899.7	1,899.7	1,899.7	4.1	4.2	-168.84	-9.5	11.4	26.2	18.0	8.26	3.174	
2,000.0	1,999.3	1,999.3	1,999.3	4.4	4.4	-171.70	-9.5	11.4	35.2	26.6	8.68	4.060	
2,100.0	2,098.6	2,099.2	2,099.2	4.6	4.6	-173.14	-9.6	10.6	46.2	37.1	9.08	5.089	
2,146.1	2,144.3	2,145.3	2,145.3	4.7	4.7	-173.31	-9.8	9.6	51.7	42.4	9.26	5.582	
2,200.0	2,197.6	2,199.3	2,199.2	4.8	4.8	-173.24	-10.1	8.0	58.0	48.5	9.48	6.121	
2,300.0	2,296.6	2,299.6	2,299.4	5.1	5.0	-172.48	-10.8	3.7	68.7	58.8	9.89	6.943	
2,400.0	2,395.6	2,400.1	2,399.8	5.4	5.2	-171.12	-11.9	-2.3	78.0	67.7	10.32	7.560	
2,500.0	2,494.5	2,500.9	2,500.3	5.7	5.4	-169.30	-13.3	-10.1	86.0	75.3	10.76	7.997	
2,600.0	2,593.5	2,601.8	2,600.7	6.0	5.6	-167.06	-15.0	-19.7	92.8	81.6	11.21	8.281	
2,700.0	2,692.5	2,702.7	2,701.0	6.3	5.9	-164.40	-17.0	-31.0	98.5	86.8	11.68	8.433	
2,800.0	2,791.5	2,803.7	2,801.1	6.6	6.1	-161.31	-19.3	-44.0	103.2	91.0	12.17	8.474	
2,900.0	2,890.4	2,903.5	2,899.9	6.9	6.4	-158.11	-21.8	-57.9	107.5	94.8	12.69	8.469	
3,000.0	2,989.4	3,003.3	2,998.6	7.2	6.6	-155.16	-24.3	-71.7	112.1	98.8	13.22	8.475	
3,100.0	3,088.4	3,103.0	3,097.4	7.5	6.9	-152.45	-26.7	-85.6	117.0	103.2	13.78	8.489	
3,200.0	3,187.4	3,202.7	3,196.1	7.8	7.2	-149.96	-29.2	-99.5	122.1	107.7	14.35	8.509	
3,300.0	3,286.4	3,302.5	3,294.8	8.2	7.5	-147.67	-31.7	-113.3	127.4	112.5	14.93	8.533	
3,400.0	3,385.3	3,402.2	3,393.6	8.5	7.8	-145.57	-34.1	-127.2	132.9	117.4	15.53	8.561	
3,500.0	3,484.3	3,501.9	3,492.3	8.8	8.1	-143.64	-36.6	-141.1	138.6	122.5	16.14	8.590	
3,600.0	3,583.3	3,601.7	3,591.0	9.1	8.4	-141.87	-39.1	-154.9	144.4	127.7	16.75	8.621	
3,700.0	3,682.3	3,701.4	3,689.8	9.5	8.7	-140.23	-41.5	-168.8	150.4	133.0	17.38	8.653	
3,800.0	3,781.3	3,801.1	3,788.5	9.8	9.0	-138.72	-44.0	-182.7	156.5	138.4	18.01	8.686	
3,900.0	3,880.2	3,900.9	3,887.2	10.1	9.3	-137.32	-46.5	-196.5	162.6	144.0	18.65	8.719	
4,000.0	3,979.2	4,000.6	3,986.0	10.5	9.6	-136.02	-48.9	-210.4	168.9	149.6	19.30	8.751	
4,100.0	4,078.2	4,100.3	4,084.7	10.8	9.9	-134.82	-51.4	-224.3	175.2	155.3	19.95	8.784	
4,200.0	4,177.2	4,200.1	4,183.4	11.1	10.3	-133.70	-53.9	-238.1	181.6	161.0	20.60	8.816	
4,300.0	4,276.2	4,299.8	4,282.2	11.5	10.6	-132.66	-56.3	-252.0	188.1	166.9	21.26	8.848	
4,400.0	4,375.1	4,399.5	4,380.9	11.8	10.9	-131.69	-58.8	-265.9	194.6	172.7	21.92	8.879	
4,500.0	4,474.1	4,499.3	4,479.6	12.2	11.2	-130.78	-61.3	-279.7	201.2	178.6	22.59	8.909	
4,600.0	4,573.1	4,599.0	4,578.4	12.5	11.6	-129.93	-63.7	-293.6	207.9	184.6	23.25	8.939	
4,700.0	4,672.1	4,698.7	4,677.1	12.8	11.9	-129.13	-66.2	-307.5	214.5	190.6	23.92	8.968	
4,800.0	4,771.1	4,798.5	4,775.9	13.2	12.2	-128.38	-68.7	-321.3	221.3	196.7	24.59	8.996	
4,820.9	4,791.8	4,819.4	4,796.5	13.2	12.3	-128.23	-69.2	-324.2	222.7	197.9	24.73	9.002	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,900.0	4,870.2	4,898.2	4,874.6	13.5	12.6	-127.53	-71.1	-335.2	227.3	202.1	25.25	9.003	
5,000.0	4,969.7	4,997.9	4,973.3	13.7	12.9	-126.05	-73.6	-349.1	231.5	205.6	25.87	8.948	
5,100.0	5,069.5	5,097.5	5,071.9	13.9	13.2	-123.90	-76.1	-362.9	233.8	207.3	26.48	8.829	
5,200.0	5,169.5	5,196.8	5,170.2	14.1	13.6	-121.05	-78.5	-376.7	234.6	207.5	27.08	8.665	
5,230.5	5,200.0	5,227.1	5,200.1	14.1	13.7	169.67	-79.3	-380.9	234.7	211.0	23.68	9.909	
5,237.7	5,207.1	5,234.1	5,207.1	14.1	13.7	169.91	-79.4	-381.9	234.6	210.9	23.70	9.900	
5,300.0	5,269.5	5,295.8	5,268.2	14.2	13.9	172.04	-81.0	-390.5	234.8	210.9	23.89	9.828	
5,400.0	5,369.5	5,395.4	5,366.9	14.4	14.2	175.24	-83.3	-403.4	235.7	211.5	24.23	9.726	
5,500.0	5,469.5	5,495.8	5,466.9	14.6	14.4	177.63	-85.0	-413.2	236.8	212.2	24.59	9.631	
5,600.0	5,569.5	5,596.9	5,567.7	14.8	14.6	179.17	-86.1	-419.6	237.8	212.8	24.97	9.523	
5,700.0	5,669.5	5,698.2	5,669.0	14.9	14.8	179.86	-86.6	-422.4	238.2	212.9	25.35	9.396	
5,800.0	5,769.5	5,798.7	5,769.5	15.1	15.0	179.90	-86.7	-422.6	238.3	212.5	25.75	9.251	
5,833.8	5,803.3	5,832.5	5,803.3	15.2	15.0	179.90	-86.7	-422.6	238.3	212.4	25.89	9.201	
5,850.0	5,819.5	5,848.7	5,819.5	15.2	15.1	89.94	-86.7	-422.6	238.3	208.3	29.99	7.945	
5,859.3	5,828.7	5,858.0	5,828.7	15.2	15.1	90.00	-86.7	-422.6	238.3	208.2	30.02	7.938	
5,900.0	5,869.4	5,898.6	5,869.4	15.3	15.1	90.58	-86.7	-422.6	238.3	208.1	30.14	7.905	
5,950.0	5,919.0	5,948.6	5,919.4	15.3	15.2	91.80	-86.7	-421.7	238.4	208.1	30.26	7.877	
6,000.0	5,968.1	5,999.0	5,969.6	15.3	15.3	93.04	-86.7	-417.6	238.6	208.3	30.33	7.866	
6,050.0	6,016.6	6,049.8	6,019.8	15.3	15.3	94.26	-86.7	-410.2	238.9	208.6	30.36	7.869	
6,100.0	6,064.1	6,100.9	6,069.7	15.3	15.3	95.47	-86.7	-399.3	239.4	209.0	30.35	7.887	
6,150.0	6,110.5	6,152.3	6,119.2	15.3	15.3	96.66	-86.7	-385.1	239.9	209.6	30.30	7.916	
6,200.0	6,155.6	6,204.2	6,167.9	15.3	15.3	97.81	-86.7	-367.4	240.5	210.3	30.24	7.954	
6,250.0	6,199.2	6,256.3	6,215.6	15.2	15.3	98.93	-86.7	-346.3	241.2	211.1	30.16	7.998	
6,300.0	6,241.1	6,308.9	6,262.0	15.2	15.2	100.01	-86.7	-321.8	242.0	211.9	30.09	8.043	
6,350.0	6,281.1	6,361.8	6,307.0	15.3	15.2	101.04	-86.7	-294.0	242.8	212.8	30.04	8.083	
6,400.0	6,319.0	6,415.0	6,350.2	15.3	15.2	102.02	-86.7	-262.9	243.6	213.6	30.03	8.113	
6,450.0	6,354.8	6,468.5	6,391.4	15.4	15.3	102.94	-86.7	-228.7	244.5	214.4	30.10	8.124	
6,500.0	6,388.2	6,522.4	6,430.2	15.5	15.4	103.81	-86.7	-191.4	245.4	215.1	30.26	8.110	
6,550.0	6,419.1	6,576.6	6,466.6	15.7	15.6	104.60	-86.7	-151.3	246.2	215.7	30.54	8.064	
6,600.0	6,447.3	6,631.0	6,500.2	16.0	15.8	105.33	-86.7	-108.5	247.1	216.1	30.96	7.980	
6,650.0	6,472.8	6,685.7	6,530.8	16.4	16.1	105.99	-86.7	-63.1	247.9	216.3	31.55	7.856	
6,700.0	6,495.4	6,740.7	6,558.2	16.9	16.6	106.58	-86.7	-15.5	248.6	216.3	32.33	7.691	
6,750.0	6,515.1	6,795.8	6,582.2	17.5	17.1	107.08	-86.7	34.1	249.3	216.0	33.29	7.489	
6,800.0	6,531.7	6,851.2	6,602.6	18.1	17.7	107.52	-86.7	85.6	249.9	215.4	34.44	7.255	
6,850.0	6,545.2	6,906.7	6,619.3	18.8	18.5	107.87	-86.7	138.5	250.3	214.6	35.78	6.996	
6,900.0	6,555.5	6,962.3	6,632.1	19.6	19.4	108.14	-86.7	192.6	250.7	213.4	37.30	6.722	
6,950.0	6,562.6	7,018.0	6,640.9	20.5	20.3	108.32	-86.7	247.6	251.0	212.0	38.97	6.440	
7,000.0	6,566.5	7,073.8	6,645.8	21.4	21.3	108.43	-86.7	303.2	251.1	210.4	40.77	6.159	
7,037.2	6,567.2	7,115.3	6,646.7	22.1	22.1	108.45	-86.7	344.6	251.2	209.0	42.18	5.954	
7,100.0	6,566.9	7,178.2	6,646.3	23.3	23.3	108.43	-86.7	407.6	251.1	206.6	44.57	5.635	
7,200.0	6,566.5	7,278.2	6,645.7	25.5	25.4	108.40	-86.7	507.6	251.1	202.5	48.58	5.169	
7,300.0	6,566.1	7,378.2	6,645.1	27.7	27.6	108.36	-86.7	607.6	251.0	198.2	52.83	4.752	
7,400.0	6,565.6	7,478.2	6,644.6	30.0	29.9	108.33	-86.7	707.6	251.0	193.7	57.27	4.382	
7,500.0	6,565.2	7,578.2	6,644.0	32.4	32.3	108.29	-86.7	807.6	250.9	189.1	61.86	4.056	
7,600.0	6,564.8	7,678.2	6,643.4	34.9	34.8	108.26	-86.7	907.6	250.9	184.3	66.57	3.769	
7,700.0	6,564.3	7,778.2	6,642.8	37.4	37.3	108.23	-86.7	1,007.6	250.8	179.5	71.38	3.514	
7,800.0	6,563.9	7,878.2	6,642.2	40.0	39.9	108.19	-86.7	1,107.6	250.8	174.5	76.26	3.289	
7,900.0	6,563.4	7,978.2	6,641.6	42.5	42.4	108.16	-86.7	1,207.6	250.7	169.5	81.20	3.088	
8,000.0	6,563.0	8,078.2	6,641.0	45.2	45.1	108.12	-86.7	1,307.6	250.7	164.5	86.20	2.908	
8,100.0	6,562.6	8,178.2	6,640.4	47.8	47.7	108.09	-86.7	1,407.6	250.6	159.4	91.24	2.747	
8,200.0	6,562.1	8,278.2	6,639.8	50.4	50.3	108.05	-86.7	1,507.6	250.6	154.3	96.33	2.602	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,300.0	6,561.7	8,378.2	6,639.2	53.1	53.0	108.02	-86.7	1,607.6	250.5	149.1	101.44	2.470	
8,400.0	6,561.3	8,478.2	6,638.6	55.8	55.7	107.99	-86.7	1,707.6	250.5	143.9	106.58	2.350	
8,500.0	6,560.8	8,578.2	6,638.0	58.5	58.4	107.95	-86.7	1,807.6	250.5	138.7	111.75	2.241	
8,600.0	6,560.4	8,678.2	6,637.4	61.2	61.1	107.92	-86.7	1,907.6	250.4	133.5	116.94	2.141	
8,700.0	6,560.0	8,778.2	6,636.8	63.9	63.8	107.88	-86.7	2,007.6	250.4	128.2	122.15	2.050	
8,800.0	6,559.5	8,878.2	6,636.2	66.6	66.5	107.85	-86.7	2,107.6	250.3	122.9	127.37	1.965	
8,900.0	6,559.1	8,978.2	6,635.7	69.4	69.3	107.82	-86.7	2,207.6	250.3	117.6	132.61	1.887	
9,000.0	6,558.6	9,078.2	6,635.1	72.1	72.0	107.78	-86.7	2,307.6	250.2	112.3	137.87	1.815	
9,100.0	6,558.2	9,178.2	6,634.5	74.8	74.7	107.75	-86.7	2,407.6	250.2	107.0	143.13	1.748	
9,200.0	6,557.8	9,278.2	6,633.9	77.6	77.5	107.71	-86.7	2,507.6	250.1	101.7	148.41	1.685	
9,300.0	6,557.3	9,378.2	6,633.3	80.3	80.2	107.68	-86.7	2,607.6	250.1	96.4	153.70	1.627	
9,400.0	6,556.9	9,478.2	6,632.7	83.1	83.0	107.64	-86.7	2,707.6	250.0	91.0	158.99	1.573	
9,500.0	6,556.5	9,578.2	6,632.1	85.8	85.7	107.61	-86.7	2,807.5	250.0	85.7	164.30	1.521	
9,600.0	6,556.0	9,678.2	6,631.5	88.6	88.5	107.58	-86.7	2,907.5	249.9	80.3	169.62	1.473	Level 3
9,700.0	6,555.6	9,778.2	6,630.9	91.4	91.3	107.54	-86.7	3,007.5	249.9	74.9	174.94	1.428	Level 3
9,800.0	6,555.2	9,878.2	6,630.3	94.1	94.0	107.51	-86.7	3,107.5	249.8	69.6	180.27	1.386	Level 3
9,900.0	6,554.7	9,978.2	6,629.7	96.9	96.8	107.47	-86.7	3,207.5	249.8	64.2	185.60	1.346	Level 3
10,000.0	6,554.3	10,078.2	6,629.1	99.7	99.6	107.44	-86.7	3,307.5	249.7	58.8	190.94	1.308	Level 3
10,100.0	6,553.8	10,178.2	6,628.5	102.5	102.3	107.40	-86.7	3,407.5	249.7	53.4	196.29	1.272	Level 3
10,200.0	6,553.4	10,278.2	6,627.9	105.2	105.1	107.37	-86.7	3,507.5	249.6	48.0	201.64	1.238	Level 2
10,300.0	6,553.0	10,378.2	6,627.3	108.0	107.9	107.33	-86.7	3,607.5	249.6	42.6	207.00	1.206	Level 2
10,400.0	6,552.5	10,478.2	6,626.7	110.8	110.7	107.30	-86.7	3,707.5	249.5	37.2	212.36	1.175	Level 2
10,500.0	6,552.1	10,578.2	6,626.2	113.6	113.5	107.27	-86.7	3,807.5	249.5	31.8	217.73	1.146	Level 2
10,600.0	6,551.7	10,678.2	6,625.6	116.4	116.2	107.23	-86.7	3,907.5	249.5	26.4	223.10	1.118	Level 2
10,700.0	6,551.2	10,778.2	6,625.0	119.1	119.0	107.20	-86.7	4,007.5	249.4	20.9	228.48	1.092	Level 2
10,800.0	6,550.8	10,878.2	6,624.4	121.9	121.8	107.16	-86.7	4,107.5	249.4	15.5	233.86	1.066	Level 2
10,900.0	6,550.4	10,978.2	6,623.8	124.7	124.6	107.13	-86.7	4,207.5	249.3	10.1	239.24	1.042	Level 2
11,000.0	6,549.9	11,078.2	6,623.2	127.5	127.4	107.09	-86.7	4,307.5	249.3	4.6	244.63	1.019	Level 2
11,100.0	6,549.5	11,178.2	6,622.6	130.3	130.2	107.06	-86.7	4,407.5	249.2	-0.8	250.02	0.997	Level 1
11,200.0	6,549.0	11,278.2	6,622.0	133.1	132.9	107.02	-86.7	4,507.5	249.2	-6.2	255.42	0.976	Level 1
11,300.0	6,548.6	11,378.2	6,621.4	135.9	135.7	106.99	-86.7	4,607.5	249.1	-11.7	260.82	0.955	Level 1
11,400.0	6,548.2	11,478.2	6,620.8	138.7	138.5	106.96	-86.7	4,707.5	249.1	-17.1	266.22	0.936	Level 1
11,500.0	6,547.7	11,578.2	6,620.2	141.4	141.3	106.92	-86.7	4,807.5	249.0	-22.6	271.62	0.917	Level 1
11,600.0	6,547.3	11,678.2	6,619.6	144.2	144.1	106.89	-86.7	4,907.5	249.0	-28.0	277.03	0.899	Level 1
11,700.0	6,546.9	11,778.2	6,619.0	147.0	146.9	106.85	-86.7	5,007.5	248.9	-33.5	282.44	0.881	Level 1
11,800.0	6,546.4	11,878.2	6,618.4	149.8	149.7	106.82	-86.7	5,107.5	248.9	-39.0	287.86	0.865	Level 1
11,900.0	6,546.0	11,978.2	6,617.8	152.6	152.5	106.78	-86.7	5,207.5	248.9	-44.4	293.28	0.849	Level 1
12,000.0	6,545.6	12,078.2	6,617.3	155.4	155.3	106.75	-86.7	5,307.5	248.8	-49.9	298.70	0.833	Level 1
12,100.0	6,545.1	12,178.2	6,616.7	158.2	158.1	106.71	-86.7	5,407.5	248.8	-55.4	304.12	0.818	Level 1
12,200.0	6,544.7	12,278.2	6,616.1	161.0	160.9	106.68	-86.7	5,507.5	248.7	-60.8	309.54	0.804	Level 1
12,300.0	6,544.2	12,378.2	6,615.5	163.8	163.7	106.64	-86.7	5,607.5	248.7	-66.3	314.97	0.790	Level 1
12,400.0	6,543.8	12,478.2	6,614.9	166.6	166.5	106.61	-86.7	5,707.5	248.6	-71.8	320.40	0.776	Level 1
12,500.0	6,543.4	12,578.2	6,614.3	169.4	169.3	106.57	-86.7	5,807.5	248.6	-77.3	325.84	0.763	Level 1
12,600.0	6,542.9	12,678.2	6,613.7	172.2	172.1	106.54	-86.7	5,907.5	248.5	-82.7	331.27	0.750	Level 1
12,700.0	6,542.5	12,778.2	6,613.1	175.0	174.9	106.51	-86.7	6,007.5	248.5	-88.2	336.71	0.738	Level 1
12,800.0	6,542.1	12,878.2	6,612.5	177.8	177.7	106.47	-86.7	6,107.5	248.5	-93.7	342.15	0.726	Level 1
12,900.0	6,541.6	12,978.2	6,611.9	180.6	180.5	106.44	-86.7	6,207.5	248.4	-99.2	347.60	0.715	Level 1
13,000.0	6,541.2	13,078.2	6,611.3	183.4	183.3	106.40	-86.7	6,307.5	248.4	-104.7	353.04	0.703	Level 1
13,100.0	6,540.8	13,178.2	6,610.7	186.2	186.1	106.37	-86.7	6,407.5	248.3	-110.2	358.49	0.693	Level 1
13,200.0	6,540.3	13,278.2	6,610.1	189.0	188.9	106.33	-86.7	6,507.5	248.3	-115.7	363.94	0.682	Level 1
13,300.0	6,539.9	13,378.2	6,609.5	191.8	191.7	106.30	-86.7	6,607.5	248.2	-121.2	369.39	0.672	Level 1

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 Extension (3-4-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,400.0	6,539.4	13,478.2	6,608.9	194.6	194.5	106.26	-86.7	6,707.5	248.2	-126.7	374.85	0.662	Level 1
13,500.0	6,539.0	13,578.2	6,608.4	197.4	197.3	106.23	-86.7	6,807.5	248.1	-132.2	380.30	0.652	Level 1
13,600.0	6,538.6	13,678.2	6,607.8	200.2	200.1	106.19	-86.7	6,907.5	248.1	-137.7	385.76	0.643	Level 1
13,700.0	6,538.1	13,778.2	6,607.2	203.0	202.9	106.16	-86.7	7,007.5	248.1	-143.2	391.23	0.634	Level 1
13,800.0	6,537.7	13,878.2	6,606.6	205.8	205.7	106.12	-86.7	7,107.5	248.0	-148.7	396.69	0.625	Level 1
13,900.0	6,537.3	13,978.2	6,606.0	208.6	208.5	106.09	-86.7	7,207.5	248.0	-154.2	402.15	0.617	Level 1
14,000.0	6,536.8	14,078.2	6,605.4	211.4	211.3	106.05	-86.7	7,307.5	247.9	-159.7	407.62	0.608	Level 1
14,100.0	6,536.4	14,178.2	6,604.8	214.2	214.1	106.02	-86.7	7,407.5	247.9	-165.2	413.09	0.600	Level 1
14,200.0	6,536.0	14,278.2	6,604.2	217.0	216.9	105.98	-86.7	7,507.5	247.8	-170.7	418.56	0.592	Level 1
14,300.0	6,535.5	14,378.2	6,603.6	219.8	219.7	105.95	-86.7	7,607.5	247.8	-176.2	424.04	0.584	Level 1
14,400.0	6,535.1	14,478.2	6,603.0	222.6	222.5	105.91	-86.7	7,707.5	247.8	-181.8	429.51	0.577	Level 1
14,500.0	6,534.6	14,578.2	6,602.4	225.4	225.3	105.88	-86.7	7,807.5	247.7	-187.3	434.99	0.569	Level 1
14,600.0	6,534.2	14,678.2	6,601.8	228.2	228.1	105.84	-86.7	7,907.5	247.7	-192.8	440.47	0.562	Level 1
14,700.0	6,533.8	14,778.2	6,601.2	231.0	230.9	105.81	-86.7	8,007.5	247.6	-198.3	445.95	0.555	Level 1
14,800.0	6,533.3	14,878.2	6,600.6	233.8	233.7	105.77	-86.7	8,107.4	247.6	-203.9	451.43	0.548	Level 1
14,900.0	6,532.9	14,978.2	6,600.0	236.6	236.5	105.74	-86.7	8,207.4	247.5	-209.4	456.92	0.542	Level 1
15,000.0	6,532.5	15,078.2	6,599.5	239.4	239.3	105.70	-86.7	8,307.4	247.5	-214.9	462.41	0.535	Level 1
15,100.0	6,532.0	15,178.2	6,598.9	242.2	242.1	105.67	-86.7	8,407.4	247.5	-220.4	467.90	0.529	Level 1
15,200.0	6,531.6	15,278.2	6,598.3	245.0	244.9	105.63	-86.7	8,507.4	247.4	-226.0	473.39	0.523	Level 1
15,300.0	6,531.2	15,378.2	6,597.7	247.8	247.7	105.60	-86.7	8,607.4	247.4	-231.5	478.88	0.517	Level 1
15,400.0	6,530.7	15,478.2	6,597.1	250.6	250.5	105.56	-86.7	8,707.4	247.3	-237.0	484.37	0.511	Level 1
15,500.0	6,530.3	15,578.2	6,596.5	253.4	253.3	105.53	-86.7	8,807.4	247.3	-242.6	489.87	0.505	Level 1
15,600.0	6,529.8	15,678.2	6,595.9	256.2	256.1	105.49	-86.7	8,907.4	247.2	-248.1	495.37	0.499	Level 1
15,700.0	6,529.4	15,778.2	6,595.3	259.0	258.9	105.46	-86.7	9,007.4	247.2	-253.7	500.87	0.494	Level 1
15,800.0	6,529.0	15,878.2	6,594.7	261.8	261.7	105.42	-86.7	9,107.4	247.2	-259.2	506.37	0.488	Level 1
15,900.0	6,528.5	15,978.2	6,594.1	264.7	264.5	105.39	-86.7	9,207.4	247.1	-264.8	511.87	0.483	Level 1
16,000.0	6,528.1	16,078.2	6,593.5	267.5	267.3	105.35	-86.7	9,307.4	247.1	-270.3	517.38	0.478	Level 1
16,100.0	6,527.7	16,178.2	6,592.9	270.3	270.1	105.32	-86.7	9,407.4	247.0	-275.9	522.89	0.472	Level 1
16,200.0	6,527.2	16,278.2	6,592.3	273.1	272.9	105.28	-86.7	9,507.4	247.0	-281.4	528.39	0.467	Level 1
16,253.1	6,527.0	16,331.3	6,592.0	274.6	274.4	105.26	-86.7	9,560.5	247.0	-284.3	531.32	0.465	Level 1, ES, SF

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
7,300.0	6,566.1	6,536.1	6,536.1	27.7	130.7	-91.02	374.9	1,522.2	941.9	783.6	158.37	5.948	
7,400.0	6,565.6	6,535.6	6,535.6	30.0	130.7	-90.91	374.9	1,522.2	845.1	684.4	160.69	5.259	
7,500.0	6,565.2	6,535.2	6,535.2	32.4	130.7	-90.80	374.9	1,522.2	749.1	586.0	163.09	4.593	
7,600.0	6,564.8	6,534.8	6,534.8	34.9	130.7	-90.69	374.9	1,522.2	654.4	488.8	165.55	3.953	
7,700.0	6,564.3	6,534.3	6,534.3	37.4	130.7	-90.58	374.9	1,522.2	561.4	393.3	168.06	3.340	
7,800.0	6,563.9	6,533.9	6,533.9	40.0	130.7	-90.46	374.9	1,522.2	471.3	300.7	170.61	2.763	
7,900.0	6,563.4	6,533.4	6,533.4	42.5	130.7	-90.35	374.9	1,522.2	386.2	213.0	173.19	2.230	
8,000.0	6,563.0	6,533.0	6,533.0	45.2	130.7	-90.24	374.9	1,522.2	310.1	134.3	175.80	1.764	
8,100.0	6,562.6	6,532.6	6,532.6	47.8	130.7	-90.13	374.9	1,522.2	251.2	72.8	178.43	1.408	Level 3
8,200.0	6,562.1	6,532.1	6,532.1	50.4	130.6	-90.02	374.9	1,522.2	223.8	42.8	181.07	1.236	Level 2
8,215.1	6,562.1	6,532.1	6,532.1	50.8	130.6	-90.00	374.9	1,522.2	223.3	41.9	181.48	1.231	Level 2, CC, ES, SF
8,300.0	6,561.7	6,531.7	6,531.7	53.1	130.6	-89.90	374.9	1,522.2	238.9	55.2	183.74	1.300	Level 3
8,400.0	6,561.3	6,531.3	6,531.3	55.8	130.6	-89.79	374.9	1,522.2	289.9	103.5	186.41	1.555	
8,500.0	6,560.8	6,530.8	6,530.8	58.5	130.6	-89.68	374.9	1,522.2	362.0	172.9	189.10	1.914	
8,600.0	6,560.4	6,530.4	6,530.4	61.2	130.6	-89.57	374.9	1,522.2	445.0	253.2	191.79	2.320	
8,700.0	6,560.0	6,530.0	6,530.0	63.9	130.6	-89.46	374.9	1,522.2	533.9	339.4	194.50	2.745	
8,800.0	6,559.5	6,529.5	6,529.5	66.6	130.6	-89.35	374.9	1,522.2	626.1	428.9	197.21	3.175	
8,900.0	6,559.1	6,529.1	6,529.1	69.4	130.6	-89.23	374.9	1,522.2	720.4	520.5	199.93	3.603	
9,000.0	6,558.6	6,528.6	6,528.6	72.1	130.6	-89.12	374.9	1,522.2	816.1	613.4	202.65	4.027	
9,100.0	6,558.2	6,528.2	6,528.2	74.8	130.6	-89.01	374.9	1,522.2	912.7	707.3	205.38	4.444	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 6865-UNKNOWN

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	28.45	396.0	214.6	451.3				
100.0	100.0	72.0	72.0	0.1	1.4	28.45	396.0	214.6	450.4	448.8	1.55	290.090	
200.0	200.0	172.0	172.0	0.3	3.4	28.45	396.0	214.6	450.4	446.6	3.78	119.234	
300.0	300.0	272.0	272.0	0.6	5.4	28.45	396.0	214.6	450.4	444.4	6.00	75.038	
400.0	400.0	372.0	372.0	0.8	7.4	28.45	396.0	214.6	450.4	442.2	8.23	54.746	
500.0	500.0	472.0	472.0	1.0	9.4	28.45	396.0	214.6	450.4	439.9	10.45	43.093	
600.0	600.0	572.0	572.0	1.2	11.4	28.45	396.0	214.6	450.4	437.7	12.68	35.530	
700.0	700.0	672.0	672.0	1.5	13.4	28.45	396.0	214.6	450.4	435.5	14.90	30.225	
800.0	800.0	772.0	772.0	1.7	15.4	28.45	396.0	214.6	450.4	433.3	17.13	26.299	
900.0	900.0	872.0	872.0	1.9	17.4	28.45	396.0	214.6	450.4	431.0	19.35	23.275	
1,000.0	1,000.0	972.0	972.0	2.1	19.4	28.45	396.0	214.6	450.4	428.8	21.58	20.875	
1,100.0	1,100.0	1,072.0	1,072.0	2.4	21.4	28.45	396.0	214.6	450.4	426.6	23.80	18.924	
1,200.0	1,200.0	1,172.0	1,172.0	2.6	23.4	28.45	396.0	214.6	450.4	424.4	26.02	17.306	
1,300.0	1,300.0	1,272.0	1,272.0	2.8	25.4	28.45	396.0	214.6	450.4	422.1	28.25	15.943	
1,400.0	1,400.0	1,372.0	1,372.0	3.0	27.4	28.45	396.0	214.6	450.4	419.9	30.47	14.779	
1,500.0	1,500.0	1,472.0	1,472.0	3.3	29.4	28.45	396.0	214.6	450.4	417.7	32.70	13.774	
1,600.0	1,600.0	1,572.0	1,572.0	3.5	31.4	28.45	396.0	214.6	450.4	415.5	34.92	12.896	
1,700.0	1,700.0	1,672.0	1,672.0	3.7	33.4	98.89	396.0	214.6	450.6	413.4	37.14	12.132	
1,800.0	1,799.9	1,771.9	1,771.9	3.9	35.4	99.38	396.0	214.6	451.2	411.9	39.35	11.468	
1,900.0	1,899.7	1,871.7	1,871.7	4.1	37.4	100.18	396.0	214.6	452.3	410.8	41.56	10.885	
2,000.0	1,999.3	1,971.3	1,971.3	4.4	39.4	101.28	396.0	214.6	454.0	410.3	43.77	10.374	
2,100.0	2,098.6	2,070.6	2,070.6	4.6	41.4	102.68	396.0	214.6	456.5	410.5	45.98	9.928	
2,146.1	2,144.3	2,116.3	2,116.3	4.7	42.3	103.42	396.0	214.6	457.9	410.9	47.00	9.743	
2,200.0	2,197.6	2,169.6	2,169.6	4.8	43.4	104.35	396.0	214.6	459.8	411.6	48.20	9.539	
2,300.0	2,296.6	2,268.6	2,268.6	5.1	45.4	106.04	396.0	214.6	463.6	413.1	50.43	9.192	
2,400.0	2,395.6	2,367.6	2,367.6	5.4	47.4	107.70	396.0	214.6	467.7	415.1	52.67	8.880	
2,500.0	2,494.5	2,466.5	2,466.5	5.7	49.3	109.33	396.0	214.6	472.3	417.4	54.91	8.601	
2,600.0	2,593.5	2,565.5	2,565.5	6.0	51.3	110.93	396.0	214.6	477.2	420.1	57.16	8.350	
2,700.0	2,692.5	2,664.5	2,664.5	6.3	53.3	112.50	396.0	214.6	482.6	423.2	59.40	8.124	
2,800.0	2,791.5	2,763.5	2,763.5	6.6	55.3	114.03	396.0	214.6	488.2	426.6	61.65	7.920	
2,900.0	2,890.4	2,862.4	2,862.4	6.9	57.2	115.53	396.0	214.6	494.3	430.4	63.89	7.736	
3,000.0	2,989.4	2,961.4	2,961.4	7.2	59.2	116.99	396.0	214.6	500.6	434.5	66.14	7.569	
3,100.0	3,088.4	3,060.4	3,060.4	7.5	61.2	118.41	396.0	214.6	507.3	438.9	68.38	7.418	
3,200.0	3,187.4	3,159.4	3,159.4	7.8	63.2	119.79	396.0	214.6	514.3	443.7	70.63	7.282	
3,300.0	3,286.4	3,258.4	3,258.4	8.2	65.2	121.14	396.0	214.6	521.6	448.7	72.87	7.158	
3,400.0	3,385.3	3,357.3	3,357.3	8.5	67.1	122.45	396.0	214.6	529.1	454.0	75.10	7.045	
3,500.0	3,484.3	3,456.3	3,456.3	8.8	69.1	123.73	396.0	214.6	537.0	459.6	77.34	6.943	
3,600.0	3,583.3	3,555.3	3,555.3	9.1	71.1	124.97	396.0	214.6	545.1	465.5	79.57	6.850	
3,700.0	3,682.3	3,654.3	3,654.3	9.5	73.1	126.17	396.0	214.6	553.4	471.6	81.80	6.765	
3,800.0	3,781.3	3,753.3	3,753.3	9.8	75.1	127.33	396.0	214.6	562.0	478.0	84.03	6.688	
3,900.0	3,880.2	3,852.2	3,852.2	10.1	77.0	128.46	396.0	214.6	570.8	484.5	86.26	6.617	
4,000.0	3,979.2	3,951.2	3,951.2	10.5	79.0	129.56	396.0	214.6	579.8	491.3	88.48	6.553	
4,100.0	4,078.2	4,050.2	4,050.2	10.8	81.0	130.62	396.0	214.6	589.1	498.4	90.70	6.494	
4,200.0	4,177.2	4,149.2	4,149.2	11.1	83.0	131.65	396.0	214.6	598.5	505.6	92.92	6.441	
4,300.0	4,276.2	4,248.2	4,248.2	11.5	85.0	132.65	396.0	214.6	608.1	513.0	95.14	6.392	
4,400.0	4,375.1	4,347.1	4,347.1	11.8	86.9	133.61	396.0	214.6	617.9	520.5	97.35	6.347	
4,500.0	4,474.1	4,446.1	4,446.1	12.2	88.9	134.55	396.0	214.6	627.9	528.3	99.56	6.306	
4,600.0	4,573.1	4,545.1	4,545.1	12.5	90.9	135.46	396.0	214.6	638.0	536.2	101.78	6.269	
4,700.0	4,672.1	4,644.1	4,644.1	12.8	92.9	136.34	396.0	214.6	648.3	544.3	103.98	6.234	
4,800.0	4,771.1	4,743.1	4,743.1	13.2	94.9	137.19	396.0	214.6	658.7	552.5	106.19	6.203	
4,820.9	4,791.8	4,763.8	4,763.8	13.2	95.3	137.36	396.0	214.6	660.9	554.2	106.66	6.197	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 6865-UNKNOWN

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,900.0	4,870.2	4,842.2	4,842.2	13.5	96.8	138.05	396.0	214.6	668.5	559.9	108.57	6.157	
5,000.0	4,969.7	4,941.7	4,941.7	13.7	98.8	138.70	396.0	214.6	675.8	564.9	110.92	6.093	
5,100.0	5,069.5	5,041.5	5,041.5	13.9	100.8	139.12	396.0	214.6	680.5	567.3	113.21	6.011	
5,200.0	5,169.5	5,141.5	5,141.5	14.1	102.8	139.30	396.0	214.6	682.7	567.2	115.42	5.915	
5,230.5	5,200.0	5,172.0	5,172.0	14.1	103.4	69.03	396.0	214.6	682.8	566.2	116.63	5.854	
5,300.0	5,269.5	5,241.5	5,241.5	14.2	104.8	69.03	396.0	214.6	682.8	564.7	118.14	5.780	
5,400.0	5,369.5	5,341.5	5,341.5	14.4	106.8	69.03	396.0	214.6	682.8	562.5	120.33	5.674	
5,500.0	5,469.5	5,441.5	5,441.5	14.6	108.8	69.03	396.0	214.6	682.8	560.3	122.52	5.573	
5,600.0	5,569.5	5,541.5	5,541.5	14.8	110.8	69.03	396.0	214.6	682.8	558.1	124.71	5.475	
5,700.0	5,669.5	5,641.5	5,641.5	14.9	112.8	69.03	396.0	214.6	682.8	555.9	126.90	5.381	
5,800.0	5,769.5	5,741.5	5,741.5	15.1	114.8	69.03	396.0	214.6	682.8	553.7	129.09	5.289	
5,833.8	5,803.3	5,775.3	5,775.3	15.2	115.5	69.03	396.0	214.6	682.8	553.0	129.83	5.259	
5,850.0	5,819.5	5,791.5	5,791.5	15.2	115.8	-20.98	396.0	214.6	682.6	553.0	129.63	5.266	
5,900.0	5,869.4	5,841.4	5,841.4	15.3	116.8	-21.13	396.0	214.6	680.1	549.9	130.27	5.221	
5,950.0	5,919.0	5,891.0	5,891.0	15.3	117.8	-21.47	396.0	214.6	674.6	544.1	130.42	5.172	
6,000.0	5,968.1	5,940.1	5,940.1	15.3	118.8	-22.00	396.0	214.6	666.0	535.9	130.08	5.120	
6,050.0	6,016.6	5,988.6	5,988.6	15.3	119.8	-22.74	396.0	214.6	654.5	525.2	129.28	5.063	
6,100.0	6,064.1	6,036.1	6,036.1	15.3	120.7	-23.73	396.0	214.6	640.1	512.1	128.06	4.999	
6,150.0	6,110.5	6,082.5	6,082.5	15.3	121.7	-24.98	396.0	214.6	623.0	496.5	126.47	4.926	
6,200.0	6,155.6	6,127.6	6,127.6	15.3	122.6	-26.54	396.0	214.6	603.2	478.6	124.63	4.840	
6,250.0	6,199.2	6,171.2	6,171.2	15.2	123.4	-28.47	396.0	214.6	580.9	458.2	122.67	4.735	
6,300.0	6,241.1	6,213.1	6,213.1	15.2	124.3	-30.83	396.0	214.6	556.2	435.4	120.82	4.604	
6,350.0	6,281.1	6,253.1	6,253.1	15.3	125.1	-33.70	396.0	214.6	529.5	410.1	119.35	4.436	
6,400.0	6,319.0	6,291.0	6,291.0	15.3	125.8	-37.16	396.0	214.6	500.9	382.2	118.63	4.222	
6,450.0	6,354.8	6,326.8	6,326.8	15.4	126.5	-41.29	396.0	214.6	470.7	351.6	119.05	3.953	
6,500.0	6,388.2	6,360.2	6,360.2	15.5	127.2	-46.15	396.0	214.6	439.3	318.3	120.96	3.632	
6,550.0	6,419.1	6,391.1	6,391.1	15.7	127.8	-51.74	396.0	214.6	407.2	282.8	124.47	3.272	
6,600.0	6,447.3	6,419.3	6,419.3	16.0	128.4	-57.95	396.0	214.6	375.1	245.8	129.31	2.901	
6,650.0	6,472.8	6,444.8	6,444.8	16.4	128.9	-64.56	396.0	214.6	343.6	208.8	134.79	2.549	
6,700.0	6,495.4	6,467.4	6,467.4	16.9	129.3	-71.17	396.0	214.6	313.9	173.9	140.01	2.242	
6,750.0	6,515.1	6,487.1	6,487.1	17.5	129.7	-77.36	396.0	214.6	287.3	143.0	144.22	1.992	
6,800.0	6,531.7	6,503.7	6,503.7	18.1	130.1	-82.71	396.0	214.6	265.5	118.4	147.16	1.804	
6,850.0	6,545.2	6,517.2	6,517.2	18.8	130.3	-86.89	396.0	214.6	250.7	101.7	149.00	1.682	
6,900.0	6,555.5	6,527.5	6,527.5	19.6	130.6	-89.72	396.0	214.6	244.5	94.3	150.18	1.628	
6,906.8	6,556.7	6,528.7	6,528.7	19.7	130.6	-90.00	396.0	214.6	244.4	94.1	150.32	1.626	CC, ES, SF
6,950.0	6,562.6	6,534.6	6,534.6	20.5	130.7	-91.10	396.0	214.6	248.1	97.0	151.14	1.642	
7,000.0	6,566.5	6,538.5	6,538.5	21.4	130.8	-90.96	396.0	214.6	261.4	109.2	152.14	1.718	
7,037.2	6,567.2	6,539.2	6,539.2	22.1	130.8	-89.87	396.0	214.6	276.7	123.8	152.89	1.810	
7,100.0	6,566.9	6,538.9	6,538.9	23.3	130.8	-89.80	396.0	214.6	311.2	157.0	154.12	2.019	
7,200.0	6,566.5	6,538.5	6,538.5	25.5	130.8	-89.70	396.0	214.6	381.2	225.0	156.22	2.440	
7,300.0	6,566.1	6,538.1	6,538.1	27.7	130.8	-89.60	396.0	214.6	462.4	304.0	158.44	2.919	
7,400.0	6,565.6	6,537.6	6,537.6	30.0	130.8	-89.50	396.0	214.6	549.9	389.1	160.76	3.420	
7,500.0	6,565.2	6,537.2	6,537.2	32.4	130.7	-89.39	396.0	214.6	641.0	477.8	163.15	3.929	
7,600.0	6,564.8	6,536.8	6,536.8	34.9	130.7	-89.29	396.0	214.6	734.4	568.8	165.61	4.435	
7,700.0	6,564.3	6,536.3	6,536.3	37.4	130.7	-89.19	396.0	214.6	829.4	661.3	168.11	4.934	
7,800.0	6,563.9	6,535.9	6,535.9	40.0	130.7	-89.09	396.0	214.6	925.4	754.8	170.65	5.423	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Monfort Kuner B 26-7 (Exist.) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 7312-UNKNOWN

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,600.0	6,560.4	6,526.4	6,526.4	61.2	130.5	-90.94	402.4	2,849.9	975.6	783.9	191.68	5.090	
8,700.0	6,560.0	6,526.0	6,526.0	63.9	130.5	-90.84	402.4	2,849.9	879.3	684.9	194.39	4.523	
8,800.0	6,559.5	6,525.5	6,525.5	66.6	130.5	-90.74	402.4	2,849.9	784.0	586.9	197.11	3.977	
8,900.0	6,559.1	6,525.1	6,525.1	69.4	130.5	-90.64	402.4	2,849.9	690.0	490.1	199.84	3.453	
9,000.0	6,558.6	6,524.6	6,524.6	72.1	130.5	-90.54	402.4	2,849.9	597.9	395.3	202.57	2.952	
9,100.0	6,558.2	6,524.2	6,524.2	74.8	130.5	-90.44	402.4	2,849.9	508.9	303.6	205.31	2.479	
9,200.0	6,557.8	6,523.8	6,523.8	77.6	130.5	-90.34	402.4	2,849.9	424.7	216.7	208.05	2.041	
9,300.0	6,557.3	6,523.3	6,523.3	80.3	130.5	-90.24	402.4	2,849.9	349.0	138.3	210.79	1.656	
9,400.0	6,556.9	6,522.9	6,522.9	83.1	130.5	-90.14	402.4	2,849.9	288.6	75.0	213.54	1.351	Level 3
9,500.0	6,556.5	6,522.5	6,522.5	85.8	130.4	-90.04	402.4	2,849.9	254.4	38.1	216.29	1.176	Level 2
9,542.8	6,556.3	6,522.3	6,522.3	87.0	130.4	-90.00	402.4	2,849.9	250.8	33.3	217.47	1.153	Level 2, CC, ES, SF
9,600.0	6,556.0	6,522.0	6,522.0	88.6	130.4	-89.94	402.4	2,849.9	257.2	38.2	219.05	1.174	Level 2
9,700.0	6,555.6	6,521.6	6,521.6	91.4	130.4	-89.84	402.4	2,849.9	296.0	74.2	221.80	1.334	Level 3
9,800.0	6,555.2	6,521.2	6,521.2	94.1	130.4	-89.74	402.4	2,849.9	359.2	134.7	224.56	1.600	
9,900.0	6,554.7	6,520.7	6,520.7	96.9	130.4	-89.64	402.4	2,849.9	436.4	209.1	227.32	1.920	
10,000.0	6,554.3	6,520.3	6,520.3	99.7	130.4	-89.54	402.4	2,849.9	521.5	291.4	230.08	2.266	
10,100.0	6,553.8	6,519.8	6,519.8	102.5	130.4	-89.44	402.4	2,849.9	611.0	378.2	232.84	2.624	
10,200.0	6,553.4	6,519.4	6,519.4	105.2	130.4	-89.34	402.4	2,849.9	703.4	467.8	235.61	2.986	
10,300.0	6,553.0	6,519.0	6,519.0	108.0	130.4	-89.25	402.4	2,849.9	797.6	559.3	238.37	3.346	
10,400.0	6,552.5	6,518.5	6,518.5	110.8	130.4	-89.15	402.4	2,849.9	893.1	652.0	241.14	3.704	
10,500.0	6,552.1	6,518.1	6,518.1	113.6	130.4	-89.05	402.4	2,849.9	989.5	745.6	243.90	4.057	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 100-NS-GYRO-MS

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9,900.0	6,554.7	6,577.3	6,576.3	96.9	13.3	-106.59	361.3	4,092.5	911.8	806.1	105.73	8.624	
10,000.0	6,554.3	6,570.2	6,569.3	99.7	13.2	-104.80	361.3	4,093.0	815.1	705.8	109.28	7.458	
10,100.0	6,553.8	6,563.1	6,562.2	102.5	13.2	-102.99	361.3	4,093.5	719.1	606.3	112.79	6.376	
10,200.0	6,553.4	6,556.0	6,555.1	105.2	13.2	-101.14	361.3	4,093.9	624.4	508.1	116.24	5.371	
10,300.0	6,553.0	6,548.9	6,548.1	108.0	13.2	-99.27	361.2	4,094.4	531.5	411.8	119.62	4.443	
10,400.0	6,552.5	6,541.9	6,541.0	110.8	13.2	-97.38	361.2	4,094.9	441.6	318.6	122.92	3.592	
10,500.0	6,552.1	6,535.0	6,534.2	113.6	13.1	-95.54	361.2	4,095.3	356.9	230.8	126.11	2.830	
10,600.0	6,551.7	6,528.0	6,527.2	116.4	13.1	-93.64	361.2	4,095.8	282.3	153.1	129.20	2.185	
10,700.0	6,551.2	6,521.2	6,520.4	119.1	13.1	-91.80	361.2	4,096.2	227.9	95.7	132.17	1.724	
10,789.6	6,550.8	6,515.2	6,514.4	121.6	13.1	-90.16	361.2	4,096.6	209.6	74.9	134.72	1.556	CC
10,800.0	6,550.8	6,514.5	6,513.7	121.9	13.1	-89.96	361.2	4,096.7	209.9	74.9	135.01	1.555	ES, SF
10,900.0	6,550.4	6,507.8	6,507.0	124.7	13.1	-88.13	361.3	4,097.1	236.8	99.1	137.73	1.720	
11,000.0	6,549.9	6,501.1	6,500.3	127.5	13.1	-86.31	361.3	4,097.6	296.7	156.4	140.31	2.114	
11,100.0	6,549.5	6,494.6	6,493.8	130.3	13.1	-84.56	361.3	4,098.0	374.0	231.2	142.77	2.620	
11,200.0	6,549.0	6,488.4	6,487.6	133.1	13.0	-82.88	361.4	4,098.4	460.0	314.9	145.11	3.170	
11,300.0	6,548.6	6,482.3	6,481.6	135.9	13.0	-81.27	361.4	4,098.8	550.7	403.4	147.34	3.738	
11,400.0	6,548.2	6,476.5	6,475.8	138.7	13.0	-79.73	361.5	4,099.1	644.1	494.6	149.48	4.309	
11,500.0	6,547.7	6,470.9	6,470.2	141.4	13.0	-78.26	361.5	4,099.5	739.2	587.7	151.52	4.878	
11,600.0	6,547.3	6,465.5	6,464.8	144.2	13.0	-76.85	361.6	4,099.8	835.4	681.9	153.49	5.443	
11,700.0	6,546.9	6,460.2	6,459.5	147.0	13.0	-75.51	361.6	4,100.1	932.3	777.0	155.38	6.000	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 32-25 - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 181- **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,800.0	6,537.7	6,880.5	6,532.1	205.8	37.9	-97.03	383.5	8,069.6	990.4	750.7	239.69	4.132	
13,900.0	6,537.3	6,877.2	6,528.8	208.6	37.9	-96.24	383.5	8,069.7	893.5	650.7	242.82	3.680	
14,000.0	6,536.8	6,874.0	6,525.6	211.4	37.8	-95.44	383.5	8,069.8	797.4	551.5	245.93	3.243	
14,100.0	6,536.4	6,870.7	6,522.4	214.2	37.8	-94.65	383.4	8,069.9	702.4	453.4	248.99	2.821	
14,200.0	6,536.0	6,867.5	6,519.2	217.0	37.8	-93.86	383.4	8,070.0	608.9	356.9	252.02	2.416	
14,300.0	6,535.5	6,864.3	6,515.9	219.8	37.8	-93.07	383.4	8,070.1	517.9	262.9	255.00	2.031	
14,400.0	6,535.1	6,861.1	6,512.7	222.6	37.8	-92.27	383.3	8,070.2	430.8	172.9	257.95	1.670	
14,500.0	6,534.6	6,857.9	6,509.5	225.4	37.8	-91.48	383.3	8,070.2	350.7	89.8	260.86	1.344	Level 3
14,600.0	6,534.2	6,854.7	6,506.3	228.2	37.8	-90.70	383.3	8,070.3	283.4	19.7	263.72	1.075	Level 2
14,700.0	6,533.8	6,851.6	6,503.2	231.0	37.8	-89.93	383.2	8,070.4	240.1	-26.4	266.53	0.901	Level 1
14,763.4	6,533.5	6,849.6	6,501.2	232.8	37.8	-89.44	383.2	8,070.5	231.6	-36.7	268.29	0.863	Level 1, CC, ES, SF
14,800.0	6,533.3	6,848.5	6,500.1	233.8	37.8	-89.16	383.2	8,070.5	234.5	-34.8	269.30	0.871	Level 1
14,900.0	6,532.9	6,845.4	6,497.1	236.6	37.8	-88.41	383.2	8,070.6	268.9	-3.2	272.03	0.988	Level 1
15,000.0	6,532.5	6,842.4	6,494.1	239.4	37.8	-87.67	383.1	8,070.7	331.0	56.3	274.71	1.205	Level 2
15,100.0	6,532.0	6,839.5	6,491.1	242.2	37.8	-86.93	383.1	8,070.7	408.4	131.1	277.35	1.473	Level 3
15,200.0	6,531.6	6,836.5	6,488.1	245.0	37.8	-86.21	383.1	8,070.8	494.0	214.1	279.95	1.765	
15,300.0	6,531.2	6,833.6	6,485.2	247.8	37.8	-85.49	383.1	8,070.9	584.2	301.7	282.50	2.068	
15,400.0	6,530.7	6,830.7	6,482.4	250.6	37.8	-84.79	383.0	8,071.0	677.1	392.1	285.02	2.376	
15,500.0	6,530.3	6,827.9	6,479.5	253.4	37.8	-84.09	383.0	8,071.0	771.8	484.3	287.49	2.685	
15,600.0	6,529.8	6,825.1	6,476.7	256.2	37.8	-83.40	383.0	8,071.1	867.7	577.8	289.92	2.993	
15,700.0	6,529.4	6,822.3	6,474.0	259.0	37.8	-82.73	383.0	8,071.2	964.4	672.1	292.32	3.299	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 42-25 - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 92- **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
15,200.0	6,531.6	6,584.0	6,497.1	245.0	19.9	-89.60	395.9	9,378.6	905.2	644.0	261.20	3.465	
15,300.0	6,531.2	6,584.0	6,497.1	247.8	19.9	-89.60	395.9	9,378.6	809.4	545.4	264.01	3.066	
15,400.0	6,530.7	6,584.0	6,497.1	250.6	19.9	-89.60	395.9	9,378.6	714.7	447.8	266.81	2.679	
15,500.0	6,530.3	6,584.0	6,497.1	253.4	19.9	-89.60	395.9	9,378.6	621.6	352.0	269.61	2.306	
15,600.0	6,529.8	6,584.0	6,497.1	256.2	19.9	-89.60	395.9	9,378.6	531.1	258.7	272.42	1.950	
15,700.0	6,529.4	6,584.0	6,497.1	259.0	19.9	-89.60	395.9	9,378.6	444.7	169.5	275.22	1.616	
15,800.0	6,529.0	6,584.0	6,497.1	261.8	19.9	-89.60	395.9	9,378.6	365.3	87.3	278.03	1.314	Level 3
15,900.0	6,528.5	6,584.0	6,497.1	264.7	19.9	-89.60	395.9	9,378.6	298.6	17.7	280.83	1.063	Level 2
16,000.0	6,528.1	6,585.3	6,498.4	267.5	19.9	-89.91	395.9	9,378.6	254.6	-29.1	283.65	0.898	Level 1
16,071.6	6,527.8	6,585.0	6,498.0	269.5	19.9	-89.82	395.9	9,378.6	244.3	-41.3	285.65	0.855	Level 1, CC, ES, SF
16,100.0	6,527.7	6,584.8	6,497.9	270.3	19.9	-89.78	395.9	9,378.6	246.0	-40.5	286.45	0.859	Level 1
16,200.0	6,527.2	6,584.2	6,497.3	273.1	19.9	-89.65	395.9	9,378.6	276.0	-13.2	289.25	0.954	Level 1
16,253.1	6,527.0	6,584.0	6,497.1	274.6	19.9	-89.60	395.9	9,378.6	304.4	13.6	290.74	1.047	Level 2

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 6-4-25 - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

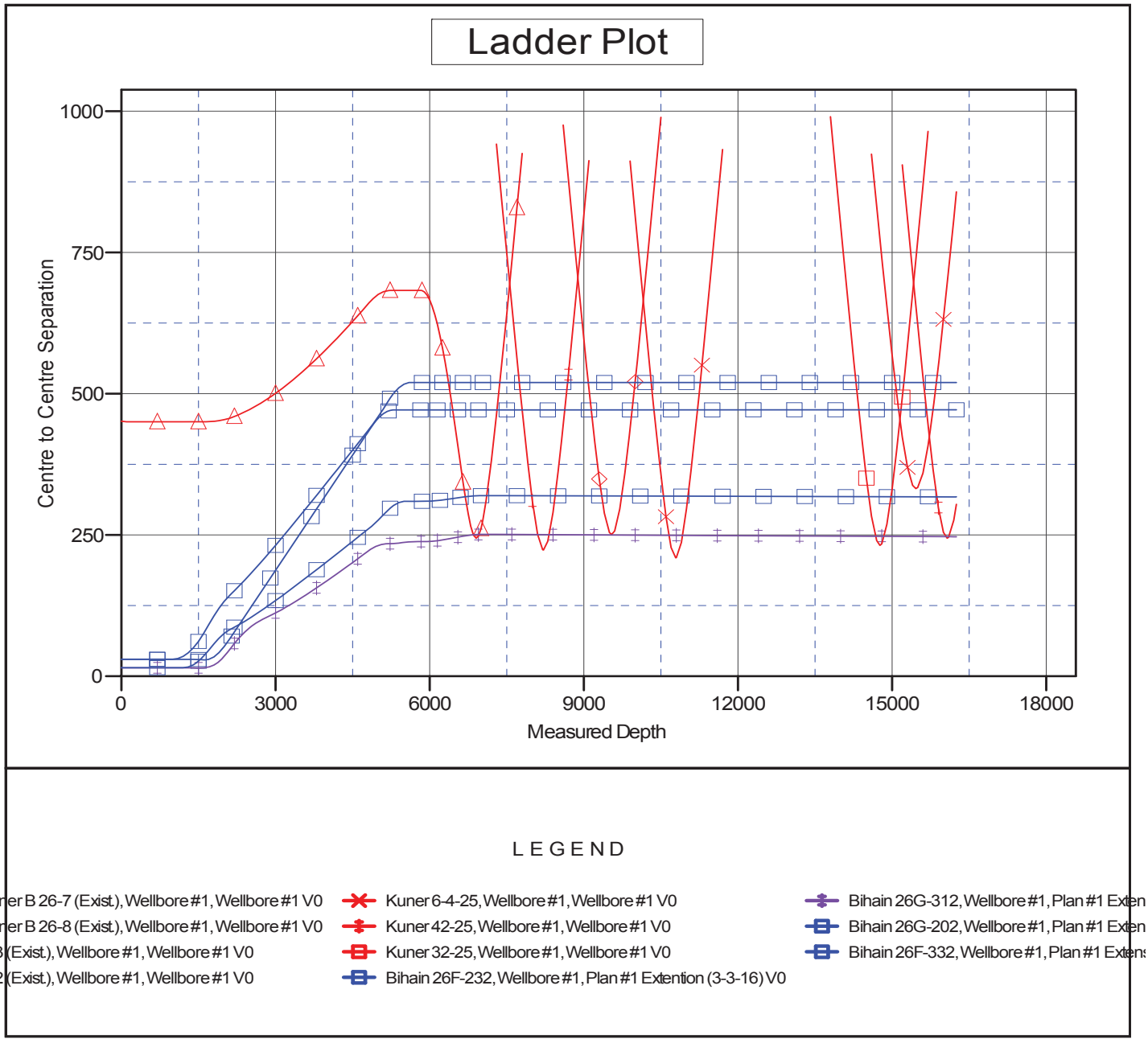
Survey Program: 92- **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
14,600.0	6,534.2	6,807.0	6,511.1	228.2	32.7	91.84	-180.5	8,769.6	924.2	671.8	252.46	3.661	
14,700.0	6,533.8	6,805.7	6,509.9	231.0	32.7	91.62	-180.5	8,769.6	831.7	576.4	255.29	3.258	
14,800.0	6,533.3	6,804.5	6,508.6	233.8	32.7	91.41	-180.5	8,769.6	741.1	483.0	258.12	2.871	
14,900.0	6,532.9	6,803.2	6,507.3	236.6	32.7	91.18	-180.5	8,769.6	653.2	392.3	260.95	2.503	
15,000.0	6,532.5	6,801.9	6,506.0	239.4	32.7	90.96	-180.4	8,769.6	569.4	305.6	263.78	2.159	
15,100.0	6,532.0	6,800.6	6,504.7	242.2	32.7	90.73	-180.4	8,769.6	491.6	225.0	266.60	1.844	
15,200.0	6,531.6	6,799.2	6,503.3	245.0	32.7	90.50	-180.4	8,769.6	423.3	153.9	269.42	1.571	
15,300.0	6,531.2	6,797.8	6,502.0	247.8	32.7	90.26	-180.4	8,769.6	369.7	97.5	272.23	1.358	Level 3
15,400.0	6,530.7	6,796.5	6,500.6	250.6	32.7	90.02	-180.4	8,769.7	337.9	62.8	275.05	1.228	Level 2
15,462.6	6,530.4	6,795.6	6,499.7	252.4	32.7	89.87	-180.4	8,769.7	332.0	55.2	276.80	1.199	Level 2, CC, ES, SF
15,500.0	6,530.3	6,795.1	6,499.2	253.4	32.7	89.78	-180.4	8,769.7	334.1	56.3	277.85	1.203	Level 2
15,600.0	6,529.8	6,793.6	6,497.7	256.2	32.7	89.53	-180.4	8,769.7	359.3	78.7	280.66	1.280	Level 3
15,700.0	6,529.4	6,792.2	6,496.3	259.0	32.7	89.28	-180.4	8,769.7	408.1	124.7	283.45	1.440	Level 3
15,800.0	6,529.0	6,790.7	6,494.8	261.8	32.7	89.03	-180.4	8,769.7	473.3	187.1	286.25	1.654	
15,900.0	6,528.5	6,789.2	6,493.3	264.7	32.7	88.77	-180.4	8,769.7	549.1	260.1	289.03	1.900	
16,000.0	6,528.1	6,787.7	6,491.8	267.5	32.7	88.50	-180.4	8,769.8	631.6	339.8	291.81	2.164	
16,100.0	6,527.7	6,786.1	6,490.2	270.3	32.7	88.24	-180.4	8,769.8	718.6	424.0	294.59	2.439	
16,200.0	6,527.2	6,784.5	6,488.6	273.1	32.7	87.96	-180.4	8,769.8	808.6	511.2	297.35	2.719	
16,253.1	6,527.0	6,783.7	6,487.8	274.6	32.7	87.82	-180.4	8,769.8	857.3	558.5	298.82	2.869	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4627.0ft (RKB - 23')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: Bihain 26G-212
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.63°



Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Bihain 26G-212
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4627.0ft (RKB - 23')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4627.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Bihain 26G-212	**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 Extended (3-3-16)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4627.0ft (RKB - 23')	Coordinates are relative to: Bihain 26G-212
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°