

PETROLEUM DEVELOPMENT CORP DJ Basin

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

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

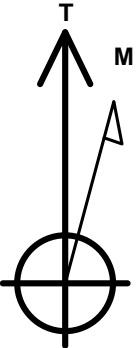
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone

Ground Elevation: 4604.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1379552.96 3271716.10 40.371173 -104.524790
RKB - 13' WELL @ 4617.0ft (RKB - 13')

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2350'FNL & 450'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 1645'FNL & 2140'FWL, Sec.25	6518.0	654.9	6965.6	Point



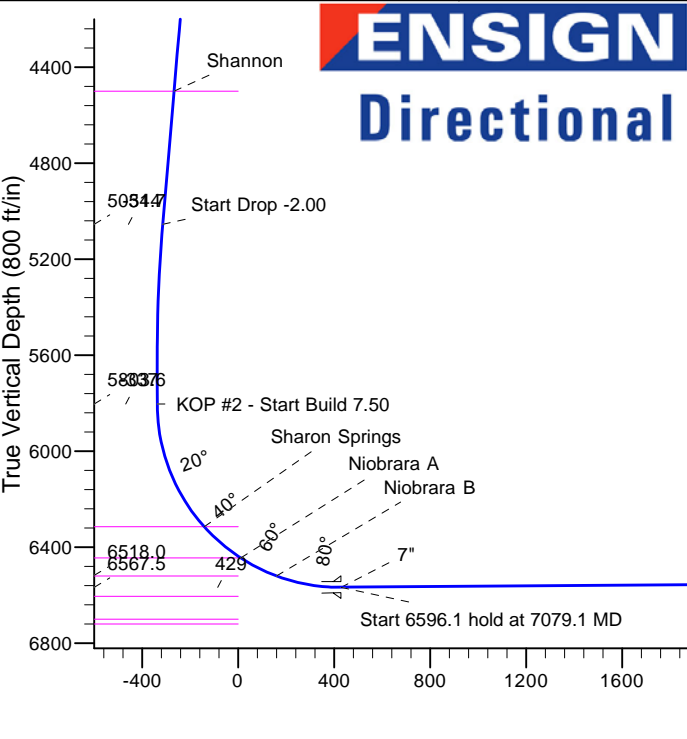
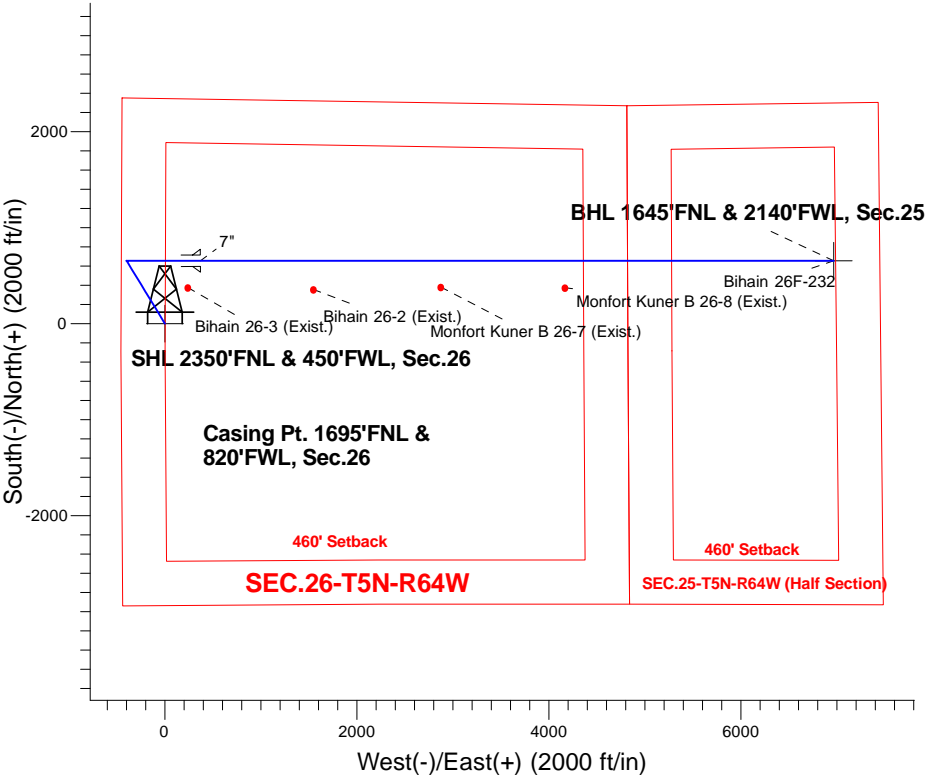
Azimuths to True North
Magnetic North: 8.14°

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

Bihain 5N64W26GK Pad Sec.26-T5N-R64W
Bihain 26F-232
Plan #1 (11-2-15)
14:09, November 04 2015

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP - Start Build 1.50
5054.7	5121.1	Start Drop -2.00
5803.6	5873.4	KOP #2 - Start Build 7.50
6567.5	7079.1	Start 6596.1 hold at 7079.1 MD
6518.0	13675.2	TD at 13675.2



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1731.5	10.97	328.58	1727.1	59.6	-36.4	1.50	328.58	-30.7	
4	5121.1	10.97	328.58	5054.7	610.2	-372.7	0.00	0.00	-313.9	
5	5669.8	0.00	0.00	5600.0	654.9	-400.0	2.00	180.00	-336.9	
6	5873.4	0.00	0.00	5803.6	654.9	-400.0	0.00	0.00	-336.9	
7	7079.1	90.43	90.00	6567.5	654.9	369.7	7.50	90.00	429.4	
8	13675.2	90.43	90.00	6518.0	654.9	6965.6	0.00	0.00	6996.3	BHL 1645'FNL & 2140'FWL, Sec.25

BHL 1645'FNL & 2140'FWL, Sec.25

6996

90.00

TD at 13675.2

Vertical Section at 84.63° (800 ft/in)



Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Bihain 5N64W26GK Pad Sec.26-T5N-R64W

Bihain 26F-232

Wellbore #1

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

Standard Planning Report

04 November, 2015

Database:	US_EDM	Local Co-ordinate Reference:	Well Bihain 26F-232
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-2-15)		

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

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

Well	Bihain 26F-232		
Well Position	+N/-S	28.8 ft	Northing:
	+E/-W	-34.6 ft	Easting:
Position Uncertainty		0.0 ft	Wellhead Elevation:
			0.0 ft
			Latitude:
			40.371173
			Longitude:
			-104.524790
			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 (11-2-15)			
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	84.63

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,731.5	10.97	328.58	1,727.1	59.6	-36.4	1.50	1.50	0.00	328.58	
5,121.1	10.97	328.58	5,054.7	610.2	-372.7	0.00	0.00	0.00	0.00	
5,669.8	0.00	0.00	5,600.0	654.9	-400.0	2.00	-2.00	0.00	180.00	
5,873.4	0.00	0.00	5,803.6	654.9	-400.0	0.00	0.00	0.00	0.00	
7,079.1	90.43	90.00	6,567.5	654.9	369.7	7.50	7.50	0.00	90.00	
13,675.2	90.43	90.00	6,518.0	654.9	6,965.6	0.00	0.00	0.00	0.00	BHL 1645'FNL & 214C

Database:	US_EDM	Local Co-ordinate Reference:	Well Bihain 26F-232
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-2-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 2350'FNL & 450'FWL, Sec.26									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.50									
1,100.0	1.50	328.58	1,100.0	1.1	-0.7	-0.6	1.50	1.50	0.00
1,200.0	3.00	328.58	1,199.9	4.5	-2.7	-2.3	1.50	1.50	0.00
1,300.0	4.50	328.58	1,299.7	10.0	-6.1	-5.2	1.50	1.50	0.00
1,400.0	6.00	328.58	1,399.3	17.9	-10.9	-9.2	1.50	1.50	0.00
1,500.0	7.50	328.58	1,498.6	27.9	-17.0	-14.3	1.50	1.50	0.00
1,600.0	9.00	328.58	1,597.5	40.1	-24.5	-20.6	1.50	1.50	0.00
1,700.0	10.50	328.58	1,696.1	54.6	-33.3	-28.1	1.50	1.50	0.00
1,731.5	10.97	328.58	1,727.1	59.6	-36.4	-30.7	1.50	1.50	0.00
1,800.0	10.97	328.58	1,794.3	70.7	-43.2	-36.4	0.00	0.00	0.00
1,900.0	10.97	328.58	1,892.5	87.0	-53.1	-44.7	0.00	0.00	0.00
2,000.0	10.97	328.58	1,990.6	103.2	-63.0	-53.1	0.00	0.00	0.00
2,100.0	10.97	328.58	2,088.8	119.5	-73.0	-61.5	0.00	0.00	0.00
2,200.0	10.97	328.58	2,187.0	135.7	-82.9	-69.8	0.00	0.00	0.00
2,300.0	10.97	328.58	2,285.1	151.9	-92.8	-78.2	0.00	0.00	0.00
2,400.0	10.97	328.58	2,383.3	168.2	-102.7	-86.5	0.00	0.00	0.00
2,500.0	10.97	328.58	2,481.5	184.4	-112.6	-94.9	0.00	0.00	0.00
2,600.0	10.97	328.58	2,579.7	200.7	-122.6	-103.2	0.00	0.00	0.00
2,700.0	10.97	328.58	2,677.8	216.9	-132.5	-111.6	0.00	0.00	0.00
2,800.0	10.97	328.58	2,776.0	233.2	-142.4	-120.0	0.00	0.00	0.00
2,900.0	10.97	328.58	2,874.2	249.4	-152.3	-128.3	0.00	0.00	0.00
3,000.0	10.97	328.58	2,972.3	265.6	-162.3	-136.7	0.00	0.00	0.00
3,100.0	10.97	328.58	3,070.5	281.9	-172.2	-145.0	0.00	0.00	0.00
3,200.0	10.97	328.58	3,168.7	298.1	-182.1	-153.4	0.00	0.00	0.00
3,300.0	10.97	328.58	3,266.9	314.4	-192.0	-161.7	0.00	0.00	0.00
3,400.0	10.97	328.58	3,365.0	330.6	-201.9	-170.1	0.00	0.00	0.00
3,435.6	10.97	328.58	3,400.0	336.4	-205.5	-173.1	0.00	0.00	0.00
Parkman									
3,500.0	10.97	328.58	3,463.2	346.9	-211.9	-178.5	0.00	0.00	0.00
3,600.0	10.97	328.58	3,561.4	363.1	-221.8	-186.8	0.00	0.00	0.00
3,700.0	10.97	328.58	3,659.5	379.4	-231.7	-195.2	0.00	0.00	0.00
3,800.0	10.97	328.58	3,757.7	395.6	-241.6	-203.5	0.00	0.00	0.00
3,900.0	10.97	328.58	3,855.9	411.8	-251.5	-211.9	0.00	0.00	0.00
4,000.0	10.97	328.58	3,954.1	428.1	-261.5	-220.2	0.00	0.00	0.00
4,100.0	10.97	328.58	4,052.2	444.3	-271.4	-228.6	0.00	0.00	0.00
4,153.7	10.97	328.58	4,105.0	453.1	-276.7	-233.1	0.00	0.00	0.00
Sussex									
4,200.0	10.97	328.58	4,150.4	460.6	-281.3	-237.0	0.00	0.00	0.00
4,300.0	10.97	328.58	4,248.6	476.8	-291.2	-245.3	0.00	0.00	0.00
4,400.0	10.97	328.58	4,346.8	493.1	-301.2	-253.7	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Bihain 26F-232
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-2-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,500.0	10.97	328.58	4,444.9	509.3	-311.1	-262.0	0.00	0.00	0.00
4,556.1	10.97	328.58	4,500.0	518.4	-316.6	-266.7	0.00	0.00	0.00
Shannon									
4,600.0	10.97	328.58	4,543.1	525.5	-321.0	-270.4	0.00	0.00	0.00
4,700.0	10.97	328.58	4,641.3	541.8	-330.9	-278.7	0.00	0.00	0.00
4,800.0	10.97	328.58	4,739.4	558.0	-340.8	-287.1	0.00	0.00	0.00
4,900.0	10.97	328.58	4,837.6	574.3	-350.8	-295.5	0.00	0.00	0.00
5,000.0	10.97	328.58	4,935.8	590.5	-360.7	-303.8	0.00	0.00	0.00
5,100.0	10.97	328.58	5,034.0	606.8	-370.6	-312.2	0.00	0.00	0.00
5,121.1	10.97	328.58	5,054.7	610.2	-372.7	-313.9	0.00	0.00	0.00
Start Drop -2.00									
5,200.0	9.40	328.58	5,132.3	622.1	-380.0	-320.1	2.00	-2.00	0.00
5,300.0	7.40	328.58	5,231.2	634.6	-387.6	-326.5	2.00	-2.00	0.00
5,400.0	5.40	328.58	5,330.6	644.1	-393.4	-331.4	2.00	-2.00	0.00
5,500.0	3.40	328.58	5,430.3	650.6	-397.4	-334.7	2.00	-2.00	0.00
5,600.0	1.40	328.58	5,530.2	654.2	-399.6	-336.6	2.00	-2.00	0.00
5,669.8	0.00	0.00	5,600.0	654.9	-400.0	-336.9	2.00	-2.00	0.00
5,700.0	0.00	0.00	5,630.2	654.9	-400.0	-336.9	0.00	0.00	0.00
5,800.0	0.00	0.00	5,730.2	654.9	-400.0	-336.9	0.00	0.00	0.00
5,873.4	0.00	0.00	5,803.6	654.9	-400.0	-336.9	0.00	0.00	0.00
KOP #2 - Start Build 7.50									
5,900.0	2.00	90.00	5,830.2	654.9	-399.5	-336.5	7.51	7.51	0.00
6,000.0	9.50	90.00	5,929.6	654.9	-389.5	-326.5	7.50	7.50	0.00
6,100.0	17.00	90.00	6,026.9	654.9	-366.6	-303.7	7.50	7.50	0.00
6,200.0	24.50	90.00	6,120.4	654.9	-331.2	-268.5	7.50	7.50	0.00
6,300.0	32.00	90.00	6,208.4	654.9	-283.9	-221.4	7.50	7.50	0.00
6,400.0	39.50	90.00	6,289.5	654.9	-225.6	-163.3	7.50	7.50	0.00
6,433.7	42.02	90.00	6,315.0	654.9	-203.6	-141.4	7.50	7.50	0.00
Sharon Springs									
6,500.0	47.00	90.00	6,362.3	654.9	-157.1	-95.1	7.50	7.50	0.00
6,600.0	54.50	90.00	6,425.5	654.9	-79.7	-18.0	7.50	7.50	0.00
6,634.7	57.10	90.00	6,445.0	654.9	-51.0	10.5	7.50	7.50	0.00
Niobrara A									
6,700.0	62.00	90.00	6,478.1	654.9	5.3	66.6	7.50	7.50	0.00
6,800.0	69.50	90.00	6,519.1	654.9	96.4	157.3	7.50	7.50	0.00
6,802.5	69.68	90.00	6,520.0	654.9	98.7	159.6	7.50	7.50	0.00
Niobrara B									
6,900.0	77.00	90.00	6,547.9	654.9	192.1	252.5	7.50	7.50	0.00
7,000.0	84.50	90.00	6,564.0	654.9	290.7	350.7	7.50	7.50	0.00
7,079.1	90.43	90.00	6,567.5	654.9	369.7	429.4	7.50	7.50	0.00
Start 6596.1 hold at 7079.1 MD - 7"									
7,100.0	90.43	90.00	6,567.3	654.9	390.6	450.2	0.00	0.00	0.00
7,200.0	90.43	90.00	6,566.6	654.9	490.6	549.7	0.00	0.00	0.00
7,300.0	90.43	90.00	6,565.8	654.9	590.6	649.3	0.00	0.00	0.00
7,400.0	90.43	90.00	6,565.1	654.9	690.6	748.8	0.00	0.00	0.00
7,500.0	90.43	90.00	6,564.3	654.9	790.6	848.4	0.00	0.00	0.00
7,600.0	90.43	90.00	6,563.6	654.9	890.6	948.0	0.00	0.00	0.00
7,700.0	90.43	90.00	6,562.8	654.9	990.6	1,047.5	0.00	0.00	0.00
7,800.0	90.43	90.00	6,562.1	654.9	1,090.6	1,147.1	0.00	0.00	0.00
7,900.0	90.43	90.00	6,561.3	654.9	1,190.6	1,246.6	0.00	0.00	0.00
8,000.0	90.43	90.00	6,560.6	654.9	1,290.6	1,346.2	0.00	0.00	0.00
8,100.0	90.43	90.00	6,559.8	654.9	1,390.6	1,445.8	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Bihain 26F-232
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-2-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,200.0	90.43	90.00	6,559.1	654.9	1,490.6	1,545.3	0.00	0.00	0.00
8,300.0	90.43	90.00	6,558.3	654.9	1,590.5	1,644.9	0.00	0.00	0.00
8,400.0	90.43	90.00	6,557.6	654.9	1,690.5	1,744.4	0.00	0.00	0.00
8,500.0	90.43	90.00	6,556.8	654.9	1,790.5	1,844.0	0.00	0.00	0.00
8,600.0	90.43	90.00	6,556.1	654.9	1,890.5	1,943.5	0.00	0.00	0.00
8,700.0	90.43	90.00	6,555.3	654.9	1,990.5	2,043.1	0.00	0.00	0.00
8,800.0	90.43	90.00	6,554.6	654.9	2,090.5	2,142.7	0.00	0.00	0.00
8,900.0	90.43	90.00	6,553.8	654.9	2,190.5	2,242.2	0.00	0.00	0.00
9,000.0	90.43	90.00	6,553.1	654.9	2,290.5	2,341.8	0.00	0.00	0.00
9,100.0	90.43	90.00	6,552.3	654.9	2,390.5	2,441.3	0.00	0.00	0.00
9,200.0	90.43	90.00	6,551.6	654.9	2,490.5	2,540.9	0.00	0.00	0.00
9,300.0	90.43	90.00	6,550.8	654.9	2,590.5	2,640.5	0.00	0.00	0.00
9,400.0	90.43	90.00	6,550.1	654.9	2,690.5	2,740.0	0.00	0.00	0.00
9,500.0	90.43	90.00	6,549.3	654.9	2,790.5	2,839.6	0.00	0.00	0.00
9,600.0	90.43	90.00	6,548.6	654.9	2,890.5	2,939.1	0.00	0.00	0.00
9,700.0	90.43	90.00	6,547.8	654.9	2,990.5	3,038.7	0.00	0.00	0.00
9,800.0	90.43	90.00	6,547.1	654.9	3,090.5	3,138.2	0.00	0.00	0.00
9,900.0	90.43	90.00	6,546.3	654.9	3,190.5	3,237.8	0.00	0.00	0.00
10,000.0	90.43	90.00	6,545.6	654.9	3,290.5	3,337.4	0.00	0.00	0.00
10,100.0	90.43	90.00	6,544.8	654.9	3,390.5	3,436.9	0.00	0.00	0.00
10,200.0	90.43	90.00	6,544.1	654.9	3,490.5	3,536.5	0.00	0.00	0.00
10,300.0	90.43	90.00	6,543.3	654.9	3,590.5	3,636.0	0.00	0.00	0.00
10,400.0	90.43	90.00	6,542.6	654.9	3,690.5	3,735.6	0.00	0.00	0.00
10,500.0	90.43	90.00	6,541.8	654.9	3,790.5	3,835.2	0.00	0.00	0.00
10,600.0	90.43	90.00	6,541.1	654.9	3,890.5	3,934.7	0.00	0.00	0.00
10,700.0	90.43	90.00	6,540.3	654.9	3,990.5	4,034.3	0.00	0.00	0.00
10,800.0	90.43	90.00	6,539.6	654.9	4,090.5	4,133.8	0.00	0.00	0.00
10,900.0	90.43	90.00	6,538.8	654.9	4,190.5	4,233.4	0.00	0.00	0.00
11,000.0	90.43	90.00	6,538.1	654.9	4,290.5	4,332.9	0.00	0.00	0.00
11,100.0	90.43	90.00	6,537.3	654.9	4,390.5	4,432.5	0.00	0.00	0.00
11,200.0	90.43	90.00	6,536.6	654.9	4,490.5	4,532.1	0.00	0.00	0.00
11,300.0	90.43	90.00	6,535.8	654.9	4,590.5	4,631.6	0.00	0.00	0.00
11,400.0	90.43	90.00	6,535.1	654.9	4,690.5	4,731.2	0.00	0.00	0.00
11,500.0	90.43	90.00	6,534.3	654.9	4,790.5	4,830.7	0.00	0.00	0.00
11,600.0	90.43	90.00	6,533.6	654.9	4,890.5	4,930.3	0.00	0.00	0.00
11,700.0	90.43	90.00	6,532.8	654.9	4,990.5	5,029.8	0.00	0.00	0.00
11,800.0	90.43	90.00	6,532.1	654.9	5,090.5	5,129.4	0.00	0.00	0.00
11,900.0	90.43	90.00	6,531.3	654.9	5,190.4	5,229.0	0.00	0.00	0.00
12,000.0	90.43	90.00	6,530.6	654.9	5,290.4	5,328.5	0.00	0.00	0.00
12,100.0	90.43	90.00	6,529.8	654.9	5,390.4	5,428.1	0.00	0.00	0.00
12,200.0	90.43	90.00	6,529.1	654.9	5,490.4	5,527.6	0.00	0.00	0.00
12,300.0	90.43	90.00	6,528.3	654.9	5,590.4	5,627.2	0.00	0.00	0.00
12,400.0	90.43	90.00	6,527.6	654.9	5,690.4	5,726.8	0.00	0.00	0.00
12,500.0	90.43	90.00	6,526.8	654.9	5,790.4	5,826.3	0.00	0.00	0.00
12,600.0	90.43	90.00	6,526.1	654.9	5,890.4	5,925.9	0.00	0.00	0.00
12,700.0	90.43	90.00	6,525.3	654.9	5,990.4	6,025.4	0.00	0.00	0.00
12,800.0	90.43	90.00	6,524.6	654.9	6,090.4	6,125.0	0.00	0.00	0.00
12,900.0	90.43	90.00	6,523.8	654.9	6,190.4	6,224.5	0.00	0.00	0.00
13,000.0	90.43	90.00	6,523.1	654.9	6,290.4	6,324.1	0.00	0.00	0.00
13,100.0	90.43	90.00	6,522.3	654.9	6,390.4	6,423.7	0.00	0.00	0.00
13,200.0	90.43	90.00	6,521.6	654.9	6,490.4	6,523.2	0.00	0.00	0.00
13,300.0	90.43	90.00	6,520.8	654.9	6,590.4	6,622.8	0.00	0.00	0.00
13,400.0	90.43	90.00	6,520.1	654.9	6,690.4	6,722.3	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Bihain 26F-232
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-2-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	90.43	90.00	6,519.3	654.9	6,790.4	6,821.9	0.00	0.00	0.00
13,600.0	90.43	90.00	6,518.6	654.9	6,890.4	6,921.5	0.00	0.00	0.00
13,675.2	90.43	90.00	6,518.0	654.9	6,965.6	6,996.3	0.00	0.00	0.00
TD at 13675.2 - BHL 1645'FNL & 2140'FWL, Sec.25									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL 2350'FNL & 450'FW - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,379,552.97	3,271,716.10	40.371173	-104.524790
BHL 1645'FNL & 2140'F - plan hits target center - Point	0.00	0.00	6,518.0	654.9	6,965.6	1,380,284.42	3,278,673.74	40.372968	-104.499791

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,079.1	6,567.5	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,435.6	3,400.0	Parkman		0.00	
4,153.7	4,105.0	Sussex		0.00	
4,556.1	4,500.0	Shannon		0.00	
6,433.7	6,315.0	Sharon Springs		0.00	
6,634.7	6,445.0	Niobrara A		0.00	
6,802.5	6,520.0	Niobrara B		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,000.0	1,000.0	0.0	0.0	KOP - Start Build 1.50
5,121.1	5,054.7	610.2	-372.7	Start Drop -2.00
5,873.4	5,803.6	654.9	-400.0	KOP #2 - Start Build 7.50
7,079.1	6,567.5	654.9	369.7	Start 6596.1 hold at 7079.1 MD
13,675.2	6,518.0	654.9	6,965.6	TD at 13675.2



Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Bihain 5N64W26GK Pad Sec.26-T5N-R64W

Bihain 26F-232

Wellbore #1

Plan #1 (11-2-15)

Anticollision Report

04 November, 2015



Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date 11/4/2015			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	13,675.2	Plan #1 (11-2-15) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Bihain 5N64W26GK Pad Sec.26-T5N-R64W						
Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)	1,000.0	1,000.0	15.1	10.8	3.530	CC
Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)	13,675.2	13,719.3	250.1	-138.3	0.644	Level 1, ES, SF
Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)	1,000.0	1,000.0	30.1	25.9	7.055	CC, ES
Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)	13,675.2	13,637.1	525.1	122.8	1.305	Level 3, SF
Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)	1,000.0	1,000.0	45.0	40.7	10.529	CC, ES
Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)	13,675.2	13,705.3	759.8	358.7	1.894	SF
Existing Wells Pad Sec.26-T5N-R64W						
Bihain 26-2 (Exist.) - Wellbore #1 - Wellbore #1	8,254.8	6,538.7	299.3	117.5	1.646	CC, ES, SF
Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1	6,946.5	6,539.0	278.2	127.3	1.844	CC
Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1	6,950.0	6,539.6	278.2	127.3	1.843	ES, SF
Monfort Kuner B 26-7 (Exist.) - Wellbore #1 - Wellbore #1	9,582.5	6,524.7	271.9	54.2	1.249	Level 2, CC, ES
Monfort Kuner B 26-7 (Exist.) - Wellbore #1 - Wellbore #1	9,600.0	6,524.6	272.4	54.3	1.249	Level 2, SF
Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1	10,874.0	6,512.0	279.7	26.5	1.105	Level 2, CC, ES, SF

Offset Design													Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)		Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
0.0	0.0	0.0	0.0	0.0	0.0	130.73	-9.8	11.4	15.1	15.1	0.00	N/A					
100.0	100.0	100.0	100.0	0.1	0.1	130.73	-9.8	11.4	15.1	14.9	0.22	67.072					
200.0	200.0	200.0	200.0	0.3	0.3	130.73	-9.8	11.4	15.1	14.4	0.67	22.357					
300.0	300.0	300.0	300.0	0.6	0.6	130.73	-9.8	11.4	15.1	14.0	1.12	13.414					
400.0	400.0	400.0	400.0	0.8	0.8	130.73	-9.8	11.4	15.1	13.5	1.57	9.582					
500.0	500.0	500.0	500.0	1.0	1.0	130.73	-9.8	11.4	15.1	13.1	2.02	7.452					
600.0	600.0	600.0	600.0	1.2	1.2	130.73	-9.8	11.4	15.1	12.6	2.47	6.097					
700.0	700.0	700.0	700.0	1.5	1.5	130.73	-9.8	11.4	15.1	12.2	2.92	5.159					
800.0	800.0	800.0	800.0	1.7	1.7	130.73	-9.8	11.4	15.1	11.7	3.37	4.471					
900.0	900.0	900.0	900.0	1.9	1.9	130.73	-9.8	11.4	15.1	11.3	3.82	3.945					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	130.73	-9.8	11.4	15.1	10.8	4.27	3.530	CC				
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	163.55	-9.8	11.4	16.3	11.6	4.72	3.460					
1,200.0	1,199.9	1,199.9	1,199.9	2.6	2.6	166.70	-9.8	11.4	20.1	15.0	5.16	3.897					

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
1,300.0	1,299.7	1,300.4	1,300.4	2.8	2.8	170.09	-8.9	10.5	25.2	19.6	5.60	4.501		
1,400.0	1,399.3	1,400.9	1,400.9	3.0	3.0	173.44	-6.0	7.7	30.4	24.3	6.04	5.028		
1,500.0	1,498.6	1,501.7	1,501.3	3.3	3.3	176.75	-1.3	3.1	35.6	29.1	6.47	5.495		
1,600.0	1,597.5	1,602.5	1,601.7	3.6	3.5	-179.98	5.4	-3.3	40.9	34.0	6.91	5.920		
1,700.0	1,696.1	1,703.4	1,702.0	3.9	3.7	-176.75	14.0	-11.6	46.4	39.1	7.36	6.313		
1,731.5	1,727.1	1,735.3	1,733.5	4.0	3.8	-175.74	17.1	-14.6	48.2	40.7	7.50	6.430		
1,800.0	1,794.3	1,804.3	1,801.8	4.2	4.0	-173.52	24.4	-21.7	51.6	43.7	7.83	6.589		
1,900.0	1,892.5	1,904.2	1,900.5	4.5	4.3	-170.54	35.5	-32.5	56.0	47.7	8.32	6.732		
2,000.0	1,990.6	2,004.1	1,999.1	4.9	4.6	-168.01	46.6	-43.2	60.6	51.8	8.83	6.862		
2,100.0	2,088.8	2,103.9	2,097.8	5.2	4.9	-165.84	57.7	-53.9	65.3	55.9	9.35	6.977		
2,200.0	2,187.0	2,203.8	2,196.5	5.6	5.2	-163.96	68.8	-64.6	70.0	60.1	9.89	7.078		
2,300.0	2,285.1	2,303.6	2,295.1	6.0	5.5	-162.32	79.8	-75.4	74.8	64.4	10.44	7.167		
2,400.0	2,383.3	2,403.5	2,393.8	6.4	5.9	-160.88	90.9	-86.1	79.7	68.7	11.00	7.244		
2,500.0	2,481.5	2,503.4	2,492.5	6.8	6.2	-159.61	102.0	-96.8	84.6	73.1	11.57	7.312		
2,600.0	2,579.7	2,603.2	2,591.1	7.2	6.5	-158.48	113.1	-107.5	89.6	77.4	12.16	7.370		
2,700.0	2,677.8	2,703.1	2,689.8	7.6	6.9	-157.46	124.2	-118.3	94.6	81.8	12.74	7.421		
2,800.0	2,776.0	2,803.0	2,788.5	8.0	7.2	-156.55	135.3	-129.0	99.6	86.2	13.34	7.466		
2,900.0	2,874.2	2,902.8	2,887.1	8.4	7.5	-155.73	146.3	-139.7	104.6	90.7	13.94	7.505		
3,000.0	2,972.3	3,002.7	2,985.8	8.8	7.9	-154.98	157.4	-150.4	109.7	95.1	14.55	7.539		
3,100.0	3,070.5	3,102.5	3,084.4	9.2	8.2	-154.29	168.5	-161.2	114.8	99.6	15.16	7.569		
3,200.0	3,168.7	3,202.4	3,183.1	9.6	8.6	-153.67	179.6	-171.9	119.8	104.1	15.78	7.595		
3,300.0	3,266.9	3,302.3	3,281.8	10.0	8.9	-153.10	190.7	-182.6	124.9	108.5	16.40	7.619		
3,400.0	3,365.0	3,402.1	3,380.4	10.4	9.3	-152.57	201.8	-193.4	130.1	113.0	17.02	7.639		
3,500.0	3,463.2	3,502.0	3,479.1	10.8	9.6	-152.08	212.8	-204.1	135.2	117.5	17.65	7.658		
3,600.0	3,561.4	3,601.9	3,577.8	11.2	10.0	-151.63	223.9	-214.8	140.3	122.0	18.28	7.674		
3,700.0	3,659.5	3,701.7	3,676.4	11.6	10.3	-151.21	235.0	-225.5	145.5	126.5	18.92	7.689		
3,800.0	3,757.7	3,801.6	3,775.1	12.0	10.7	-150.81	246.1	-236.3	150.6	131.0	19.55	7.702		
3,900.0	3,855.9	3,901.4	3,873.8	12.4	11.0	-150.45	257.2	-247.0	155.8	135.6	20.19	7.713		
4,000.0	3,954.1	4,001.3	3,972.4	12.9	11.4	-150.10	268.3	-257.7	160.9	140.1	20.83	7.724		
4,100.0	4,052.2	4,101.2	4,071.1	13.3	11.8	-149.78	279.3	-268.4	166.1	144.6	21.48	7.733		
4,200.0	4,150.4	4,201.0	4,169.8	13.7	12.1	-149.48	290.4	-279.2	171.3	149.1	22.12	7.742		
4,300.0	4,248.6	4,300.9	4,268.4	14.1	12.5	-149.20	301.5	-289.9	176.4	153.7	22.77	7.750		
4,400.0	4,346.8	4,400.8	4,367.1	14.5	12.8	-148.93	312.6	-300.6	181.6	158.2	23.41	7.757		
4,500.0	4,444.9	4,500.6	4,465.7	14.9	13.2	-148.67	323.7	-311.3	186.8	162.7	24.06	7.763		
4,600.0	4,543.1	4,600.5	4,564.4	15.3	13.6	-148.44	334.8	-322.1	192.0	167.3	24.71	7.769		
4,700.0	4,641.3	4,700.3	4,663.1	15.8	13.9	-148.21	345.8	-332.8	197.2	171.8	25.36	7.774		
4,800.0	4,739.4	4,800.2	4,761.7	16.2	14.3	-147.99	356.9	-343.5	202.4	176.3	26.01	7.779		
4,900.0	4,837.6	4,900.1	4,860.4	16.6	14.6	-147.79	368.0	-354.2	207.5	180.9	26.67	7.783		
5,000.0	4,935.8	4,999.9	4,959.1	17.0	15.0	-147.59	379.1	-365.0	212.7	185.4	27.32	7.787		
5,100.0	5,034.0	5,099.6	5,057.5	17.4	15.4	-147.41	390.2	-375.7	217.9	190.0	27.97	7.791		
5,121.1	5,054.7	5,119.8	5,077.5	17.5	15.4	-147.39	392.4	-377.8	219.1	191.0	28.10	7.798		
5,200.0	5,132.3	5,194.5	5,151.5	17.8	15.6	-147.43	399.6	-384.8	223.4	194.9	28.53	7.831		
5,300.0	5,231.2	5,289.1	5,245.6	18.1	15.9	-147.58	406.7	-391.7	228.3	199.4	28.93	7.891		
5,400.0	5,330.6	5,383.6	5,339.8	18.3	16.1	-147.83	411.6	-396.5	232.6	203.4	29.27	7.948		
5,500.0	5,430.3	5,478.0	5,434.2	18.5	16.2	-148.16	414.3	-399.1	236.3	206.8	29.53	8.004		
5,600.0	5,530.2	5,574.1	5,530.2	18.7	16.4	-148.57	414.9	-399.6	239.3	209.6	29.73	8.049		
5,669.8	5,600.0	5,643.8	5,600.0	18.8	16.5	179.90	414.9	-399.6	240.0	208.0	32.08	7.482		
5,700.0	5,630.2	5,674.1	5,630.2	18.8	16.5	179.90	414.9	-399.6	240.0	207.9	32.18	7.459		
5,800.0	5,730.2	5,774.1	5,730.2	19.0	16.7	179.90	414.9	-399.6	240.0	207.5	32.51	7.383		
5,873.4	5,803.6	5,847.4	5,803.6	19.1	16.8	179.90	414.9	-399.6	240.0	207.3	32.76	7.328		
5,898.8	5,829.0	5,872.9	5,829.0	19.1	16.8	90.00	414.9	-399.6	240.0	209.3	30.73	7.810		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)													Offset Well Error:	0.0 ft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,900.0	5,830.2	5,874.0	5,830.2	19.1	16.8	90.01	414.9	-399.6	240.0	209.3	30.74	7.809		
5,950.0	5,880.1	5,924.0	5,880.1	19.1	16.9	90.81	414.9	-399.5	240.1	209.1	31.01	7.742		
6,000.0	5,929.6	5,974.1	5,930.2	19.2	17.0	91.89	414.9	-397.5	240.2	208.9	31.28	7.679		
6,050.0	5,978.6	6,024.6	5,980.4	19.2	17.0	92.97	414.9	-392.1	240.4	208.9	31.50	7.631		
6,100.0	6,026.9	6,075.4	6,030.4	19.2	17.0	94.04	414.9	-383.3	240.6	209.0	31.67	7.598		
6,150.0	6,074.2	6,126.5	6,080.0	19.2	17.0	95.10	414.9	-371.2	241.0	209.2	31.80	7.578		
6,200.0	6,120.4	6,177.9	6,129.0	19.1	17.0	96.13	414.9	-355.6	241.4	209.5	31.89	7.572		
6,250.0	6,165.1	6,229.6	6,177.1	19.1	17.0	97.13	414.9	-336.7	241.9	210.0	31.94	7.575		
6,300.0	6,208.4	6,281.6	6,224.1	19.1	17.0	98.11	414.9	-314.4	242.5	210.5	31.96	7.587		
6,350.0	6,249.9	6,333.9	6,269.8	19.0	16.9	99.04	414.9	-288.8	243.1	211.1	31.97	7.603		
6,400.0	6,289.5	6,386.5	6,313.8	18.9	16.9	99.93	414.9	-260.0	243.7	211.7	31.99	7.618		
6,450.0	6,327.0	6,439.5	6,355.9	18.9	16.8	100.78	414.9	-228.0	244.4	212.3	32.04	7.627		
6,500.0	6,362.3	6,492.6	6,396.0	18.8	16.8	101.58	414.9	-193.0	245.0	212.9	32.14	7.624		
6,550.0	6,395.2	6,546.1	6,433.7	18.8	16.8	102.32	414.9	-155.2	245.7	213.4	32.33	7.602		
6,600.0	6,425.5	6,599.8	6,468.8	18.7	16.8	103.01	414.9	-114.5	246.4	213.8	32.62	7.553		
6,650.0	6,453.2	6,653.8	6,501.1	18.7	16.8	103.64	414.9	-71.3	247.0	214.0	33.06	7.473		
6,700.0	6,478.1	6,707.9	6,530.4	18.6	16.9	104.20	414.9	-25.8	247.6	214.0	33.65	7.358		
6,750.0	6,500.1	6,762.3	6,556.5	18.6	17.1	104.70	414.9	21.9	248.2	213.7	34.43	7.207		
6,800.0	6,519.1	6,816.8	6,579.1	18.5	17.6	105.14	414.9	71.5	248.7	213.3	35.41	7.024		
6,850.0	6,535.1	6,871.5	6,598.3	18.6	18.2	105.50	414.9	122.7	249.1	212.5	36.57	6.811		
6,900.0	6,547.9	6,926.3	6,613.8	19.4	19.0	105.80	414.9	175.3	249.5	211.5	37.93	6.577		
6,950.0	6,557.6	6,981.2	6,625.4	20.2	19.8	106.02	414.9	228.9	249.7	210.3	39.47	6.327		
7,000.0	6,564.0	7,036.2	6,633.2	21.1	20.8	106.17	414.9	283.3	249.9	208.8	41.17	6.070		
7,050.0	6,567.2	7,091.2	6,637.1	22.0	21.8	106.25	414.9	338.2	250.0	207.0	43.01	5.813		
7,079.1	6,567.5	7,123.3	6,637.5	22.6	22.4	106.26	414.9	370.2	250.0	205.9	44.14	5.665		
7,100.0	6,567.3	7,144.2	6,637.4	23.0	22.8	106.26	414.9	391.1	250.0	205.1	44.92	5.566		
7,200.0	6,566.6	7,244.2	6,636.6	25.1	24.8	106.26	414.9	491.1	250.0	201.2	48.83	5.121		
7,300.0	6,565.8	7,344.2	6,635.8	27.3	27.0	106.26	414.9	591.1	250.0	197.1	52.99	4.719		
7,400.0	6,565.1	7,444.2	6,635.1	29.6	29.3	106.26	414.9	691.1	250.0	192.7	57.36	4.359		
7,500.0	6,564.3	7,544.2	6,634.3	31.9	31.7	106.26	414.9	791.1	250.0	188.1	61.90	4.040		
7,600.0	6,563.6	7,644.2	6,633.6	34.4	34.1	106.26	414.9	891.1	250.0	183.5	66.57	3.756		
7,700.0	6,562.8	7,744.2	6,632.8	36.9	36.6	106.26	414.9	991.1	250.0	178.7	71.34	3.505		
7,800.0	6,562.1	7,844.2	6,632.1	39.4	39.1	106.26	414.9	1,091.1	250.0	173.8	76.20	3.281		
7,900.0	6,561.3	7,944.2	6,631.3	42.0	41.7	106.26	414.9	1,191.1	250.0	168.9	81.13	3.082		
8,000.0	6,560.6	8,044.2	6,630.6	44.5	44.3	106.26	414.9	1,291.1	250.0	163.9	86.12	2.904		
8,100.0	6,559.8	8,144.2	6,629.8	47.2	46.9	106.26	414.9	1,391.1	250.0	158.9	91.16	2.743		
8,200.0	6,559.1	8,244.2	6,629.1	49.8	49.5	106.26	414.9	1,491.1	250.0	153.8	96.23	2.598		
8,300.0	6,558.3	8,344.2	6,628.3	52.4	52.2	106.26	414.9	1,591.1	250.0	148.7	101.35	2.467		
8,400.0	6,557.6	8,444.2	6,627.6	55.1	54.9	106.26	414.9	1,691.1	250.0	143.6	106.49	2.348		
8,500.0	6,556.8	8,544.2	6,626.8	57.8	57.6	106.26	414.9	1,791.1	250.0	138.4	111.66	2.239		
8,600.0	6,556.1	8,644.2	6,626.1	60.5	60.3	106.26	414.9	1,891.1	250.1	133.2	116.85	2.140		
8,700.0	6,555.3	8,744.2	6,625.3	63.2	63.0	106.26	414.9	1,991.1	250.1	128.0	122.06	2.049		
8,800.0	6,554.6	8,844.2	6,624.6	65.9	65.7	106.26	414.9	2,091.1	250.1	122.8	127.28	1.965		
8,900.0	6,553.8	8,944.2	6,623.8	68.6	68.4	106.26	414.9	2,191.1	250.1	117.5	132.53	1.887		
9,000.0	6,553.1	9,044.2	6,623.1	71.3	71.1	106.26	414.9	2,291.1	250.1	112.3	137.78	1.815		
9,100.0	6,552.3	9,144.2	6,622.3	74.1	73.9	106.26	414.9	2,391.1	250.1	107.0	143.05	1.748		
9,200.0	6,551.6	9,244.2	6,621.6	76.8	76.6	106.26	414.9	2,491.0	250.1	101.7	148.32	1.686		
9,300.0	6,550.8	9,344.2	6,620.8	79.5	79.3	106.26	414.9	2,591.0	250.1	96.4	153.61	1.628		
9,400.0	6,550.1	9,444.2	6,620.1	82.3	82.1	106.26	414.9	2,691.0	250.1	91.1	158.91	1.574		
9,500.0	6,549.3	9,544.2	6,619.3	85.0	84.8	106.26	414.9	2,791.0	250.1	85.8	164.21	1.523		
9,600.0	6,548.6	9,644.2	6,618.6	87.8	87.6	106.26	414.9	2,891.0	250.1	80.5	169.52	1.475	Level 3	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design													Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26F-332 - Wellbore #1 - Plan #1 (11-2-15)		Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning				
9,700.0	6,547.8	9,744.2	6,617.8	90.6	90.4	106.26	414.9	2,991.0	250.1	75.2	174.84	1.430	Level 3				
9,800.0	6,547.1	9,844.2	6,617.1	93.3	93.1	106.26	414.9	3,091.0	250.1	69.9	180.16	1.388	Level 3				
9,900.0	6,546.3	9,944.2	6,616.3	96.1	95.9	106.26	414.9	3,191.0	250.1	64.6	185.49	1.348	Level 3				
10,000.0	6,545.6	10,044.2	6,615.6	98.8	98.7	106.26	414.9	3,291.0	250.1	59.2	190.82	1.310	Level 3				
10,100.0	6,544.8	10,144.2	6,614.8	101.6	101.4	106.26	414.9	3,391.0	250.1	53.9	196.16	1.275	Level 3				
10,200.0	6,544.1	10,244.2	6,614.1	104.4	104.2	106.26	414.9	3,491.0	250.1	48.6	201.50	1.241	Level 2				
10,300.0	6,543.3	10,344.2	6,613.3	107.2	107.0	106.26	414.9	3,591.0	250.1	43.2	206.84	1.209	Level 2				
10,400.0	6,542.6	10,444.2	6,612.6	109.9	109.8	106.26	414.9	3,691.0	250.1	37.9	212.19	1.178	Level 2				
10,500.0	6,541.8	10,544.2	6,611.8	112.7	112.5	106.26	414.9	3,791.0	250.1	32.5	217.54	1.149	Level 2				
10,600.0	6,541.1	10,644.2	6,611.1	115.5	115.3	106.26	414.9	3,891.0	250.1	27.2	222.90	1.122	Level 2				
10,700.0	6,540.3	10,744.2	6,610.3	118.3	118.1	106.26	414.9	3,991.0	250.1	21.8	228.26	1.096	Level 2				
10,800.0	6,539.6	10,844.2	6,609.6	121.0	120.9	106.26	414.9	4,091.0	250.1	16.4	233.62	1.070	Level 2				
10,900.0	6,538.8	10,944.2	6,608.8	123.8	123.7	106.26	414.9	4,191.0	250.1	11.1	238.98	1.046	Level 2				
11,000.0	6,538.1	11,044.2	6,608.1	126.6	126.4	106.26	414.9	4,291.0	250.1	5.7	244.34	1.023	Level 2				
11,100.0	6,537.3	11,144.2	6,607.3	129.4	129.2	106.26	414.9	4,391.0	250.1	0.4	249.71	1.001	Level 2				
11,200.0	6,536.6	11,244.2	6,606.6	132.2	132.0	106.26	414.9	4,491.0	250.1	-5.0	255.08	0.980	Level 1				
11,300.0	6,535.8	11,344.2	6,605.8	135.0	134.8	106.26	414.9	4,591.0	250.1	-10.4	260.45	0.960	Level 1				
11,400.0	6,535.1	11,444.2	6,605.1	137.7	137.6	106.26	414.9	4,691.0	250.1	-15.8	265.82	0.941	Level 1				
11,500.0	6,534.3	11,544.2	6,604.3	140.5	140.4	106.26	414.9	4,791.0	250.1	-21.1	271.20	0.922	Level 1				
11,600.0	6,533.6	11,644.2	6,603.6	143.3	143.2	106.26	414.9	4,891.0	250.1	-26.5	276.57	0.904	Level 1				
11,700.0	6,532.8	11,744.2	6,602.8	146.1	146.0	106.26	414.9	4,991.0	250.1	-31.9	281.95	0.887	Level 1				
11,800.0	6,532.1	11,844.2	6,602.1	148.9	148.8	106.26	414.9	5,091.0	250.1	-37.3	287.33	0.870	Level 1				
11,900.0	6,531.3	11,944.2	6,601.3	151.7	151.5	106.26	414.9	5,191.0	250.1	-42.6	292.71	0.854	Level 1				
12,000.0	6,530.6	12,044.2	6,600.6	154.5	154.3	106.26	414.9	5,291.0	250.1	-48.0	298.09	0.839	Level 1				
12,100.0	6,529.8	12,144.2	6,599.8	157.3	157.1	106.26	414.9	5,391.0	250.1	-53.4	303.47	0.824	Level 1				
12,200.0	6,529.1	12,244.2	6,599.1	160.1	159.9	106.26	414.9	5,491.0	250.1	-58.8	308.85	0.810	Level 1				
12,300.0	6,528.3	12,344.2	6,598.3	162.9	162.7	106.26	414.8	5,591.0	250.1	-64.2	314.24	0.796	Level 1				
12,400.0	6,527.6	12,444.2	6,597.6	165.7	165.5	106.26	414.8	5,691.0	250.1	-69.6	319.62	0.782	Level 1				
12,500.0	6,526.8	12,544.2	6,596.8	168.5	168.3	106.26	414.8	5,791.0	250.1	-74.9	325.01	0.769	Level 1				
12,600.0	6,526.1	12,644.2	6,596.1	171.3	171.1	106.26	414.8	5,891.0	250.1	-80.3	330.40	0.757	Level 1				
12,700.0	6,525.3	12,744.2	6,595.3	174.0	173.9	106.26	414.8	5,991.0	250.1	-85.7	335.79	0.745	Level 1				
12,800.0	6,524.6	12,844.2	6,594.6	176.8	176.7	106.26	414.8	6,090.9	250.1	-91.1	341.17	0.733	Level 1				
12,900.0	6,523.8	12,944.2	6,593.8	179.6	179.5	106.26	414.8	6,190.9	250.1	-96.5	346.56	0.722	Level 1				
13,000.0	6,523.1	13,044.2	6,593.1	182.4	182.3	106.26	414.8	6,290.9	250.1	-101.9	351.96	0.711	Level 1				
13,100.0	6,522.3	13,144.2	6,592.3	185.2	185.1	106.26	414.8	6,390.9	250.1	-107.3	357.35	0.700	Level 1				
13,200.0	6,521.6	13,244.2	6,591.6	188.0	187.9	106.26	414.8	6,490.9	250.1	-112.7	362.74	0.689	Level 1				
13,300.0	6,520.8	13,344.2	6,590.8	190.8	190.7	106.26	414.8	6,590.9	250.1	-118.1	368.13	0.679	Level 1				
13,400.0	6,520.1	13,444.2	6,590.1	193.6	193.5	106.26	414.8	6,690.9	250.1	-123.4	373.52	0.670	Level 1				
13,500.0	6,519.3	13,544.2	6,589.3	196.4	196.3	106.26	414.8	6,790.9	250.1	-128.8	378.92	0.660	Level 1				
13,600.0	6,518.6	13,644.2	6,588.6	199.2	199.1	106.26	414.8	6,890.9	250.1	-134.2	384.31	0.651	Level 1				
13,675.2	6,518.0	13,719.3	6,588.0	201.3	201.2	106.26	414.8	6,966.1	250.1	-138.3	388.37	0.644	Level 1, ES, SF				

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	129.86	-19.3	23.1	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	129.86	-19.3	23.1	30.1	29.9	0.22	134.041	
200.0	200.0	200.0	200.0	0.3	0.3	129.86	-19.3	23.1	30.1	29.5	0.67	44.680	
300.0	300.0	300.0	300.0	0.6	0.6	129.86	-19.3	23.1	30.1	29.0	1.12	26.808	
400.0	400.0	400.0	400.0	0.8	0.8	129.86	-19.3	23.1	30.1	28.6	1.57	19.149	
500.0	500.0	500.0	500.0	1.0	1.0	129.86	-19.3	23.1	30.1	28.1	2.02	14.893	
600.0	600.0	600.0	600.0	1.2	1.2	129.86	-19.3	23.1	30.1	27.7	2.47	12.186	
700.0	700.0	700.0	700.0	1.5	1.5	129.86	-19.3	23.1	30.1	27.2	2.92	10.311	
800.0	800.0	800.0	800.0	1.7	1.7	129.86	-19.3	23.1	30.1	26.8	3.37	8.936	
900.0	900.0	900.0	900.0	1.9	1.9	129.86	-19.3	23.1	30.1	26.3	3.82	7.885	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	129.86	-19.3	23.1	30.1	25.9	4.27	7.055 CC, ES	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	162.04	-19.3	23.1	31.4	26.7	4.72	6.649	
1,200.0	1,199.9	1,199.9	1,199.9	2.6	2.6	164.00	-19.3	23.1	35.1	30.0	5.16	6.803	
1,300.0	1,299.7	1,299.7	1,299.7	2.8	2.8	166.47	-19.3	23.1	41.5	35.8	5.61	7.393	
1,400.0	1,399.3	1,399.3	1,399.3	3.0	3.0	168.87	-19.3	23.1	50.4	44.3	6.05	8.332	
1,500.0	1,498.6	1,498.6	1,498.6	3.3	3.3	170.94	-19.3	23.1	62.0	55.5	6.49	9.552	
1,600.0	1,597.5	1,597.5	1,597.5	3.6	3.5	172.62	-19.3	23.1	76.2	69.3	6.92	11.003	
1,700.0	1,696.1	1,697.4	1,697.4	3.9	3.7	174.23	-19.0	22.3	92.3	85.0	7.35	12.562	
1,731.5	1,727.1	1,728.9	1,728.9	4.0	3.8	174.78	-18.8	21.8	97.7	90.2	7.48	13.055	
1,800.0	1,794.3	1,797.4	1,797.4	4.2	3.9	175.99	-18.2	19.9	109.1	101.3	7.78	14.021	
1,900.0	1,892.5	1,897.8	1,897.8	4.5	4.1	177.77	-16.7	15.8	124.6	116.4	8.22	15.156	
2,000.0	1,990.6	1,998.5	1,998.2	4.9	4.3	179.61	-14.7	10.1	138.9	130.3	8.68	16.011	
2,100.0	2,088.8	2,099.5	2,098.9	5.2	4.6	-178.46	-12.1	2.6	152.0	142.9	9.14	16.628	
2,200.0	2,187.0	2,200.7	2,199.6	5.6	4.8	-176.41	-8.8	-6.5	163.9	154.3	9.62	17.042	
2,300.0	2,285.1	2,302.1	2,300.3	6.0	5.1	-174.24	-5.0	-17.4	174.8	164.7	10.11	17.282	
2,400.0	2,383.3	2,403.6	2,400.9	6.4	5.3	-171.92	-0.6	-29.9	184.6	174.0	10.63	17.372	
2,500.0	2,481.5	2,504.2	2,500.5	6.8	5.6	-169.49	4.3	-43.9	193.7	182.5	11.17	17.348	
2,600.0	2,579.7	2,603.5	2,598.6	7.2	5.9	-167.24	9.3	-58.0	202.9	191.1	11.72	17.309	
2,700.0	2,677.8	2,702.7	2,696.8	7.6	6.2	-165.19	14.3	-72.0	212.3	200.0	12.29	17.273	
2,800.0	2,776.0	2,802.0	2,794.9	8.0	6.5	-163.31	19.2	-86.1	222.0	209.1	12.88	17.238	
2,900.0	2,874.2	2,901.3	2,893.0	8.4	6.8	-161.59	24.2	-100.2	231.9	218.4	13.48	17.205	
3,000.0	2,972.3	3,000.6	2,991.2	8.8	7.1	-160.02	29.2	-114.2	242.0	227.9	14.09	17.172	
3,100.0	3,070.5	3,099.8	3,089.3	9.2	7.4	-158.57	34.1	-128.3	252.3	237.6	14.72	17.140	
3,200.0	3,168.7	3,199.1	3,187.5	9.6	7.7	-157.23	39.1	-142.4	262.7	247.4	15.36	17.109	
3,300.0	3,266.9	3,298.4	3,285.6	10.0	8.0	-156.00	44.1	-156.5	273.3	257.3	16.00	17.078	
3,400.0	3,365.0	3,397.7	3,383.8	10.4	8.4	-154.85	49.0	-170.5	283.9	267.3	16.65	17.049	
3,500.0	3,463.2	3,496.9	3,481.9	10.8	8.7	-153.79	54.0	-184.6	294.7	277.4	17.31	17.021	
3,600.0	3,561.4	3,596.2	3,580.1	11.2	9.0	-152.81	59.0	-198.7	305.6	287.6	17.98	16.994	
3,700.0	3,659.5	3,695.5	3,678.2	11.6	9.4	-151.89	63.9	-212.7	316.5	297.9	18.65	16.969	
3,800.0	3,757.7	3,794.8	3,776.4	12.0	9.7	-151.04	68.9	-226.8	327.6	308.2	19.33	16.944	
3,900.0	3,855.9	3,894.0	3,874.5	12.4	10.0	-150.24	73.9	-240.9	338.6	318.6	20.01	16.921	
4,000.0	3,954.1	3,993.3	3,972.7	12.9	10.4	-149.49	78.8	-255.0	349.8	329.1	20.70	16.899	
4,100.0	4,052.2	4,092.6	4,070.8	13.3	10.7	-148.79	83.8	-269.0	361.0	339.6	21.39	16.878	
4,200.0	4,150.4	4,191.9	4,169.0	13.7	11.0	-148.13	88.8	-283.1	372.3	350.2	22.08	16.859	
4,300.0	4,248.6	4,291.1	4,267.1	14.1	11.4	-147.50	93.7	-297.2	383.6	360.8	22.78	16.840	
4,400.0	4,346.8	4,390.4	4,365.3	14.5	11.7	-146.92	98.7	-311.2	394.9	371.4	23.48	16.823	
4,500.0	4,444.9	4,489.7	4,463.4	14.9	12.1	-146.36	103.7	-325.3	406.3	382.1	24.18	16.806	
4,600.0	4,543.1	4,589.0	4,561.6	15.3	12.4	-145.84	108.6	-339.4	417.7	392.8	24.88	16.790	
4,700.0	4,641.3	4,688.2	4,659.7	15.8	12.8	-145.35	113.6	-353.5	429.2	403.6	25.58	16.775	
4,800.0	4,739.4	4,787.5	4,757.9	16.2	13.1	-144.88	118.6	-367.5	440.7	414.4	26.29	16.761	
4,900.0	4,837.6	4,883.2	4,852.6	16.6	13.4	-144.60	123.0	-379.9	452.5	425.6	26.92	16.809	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.0	4,935.8	4,978.2	4,947.1	17.0	13.6	-144.71	126.3	-389.3	465.3	437.8	27.45	16.949		
5,100.0	5,034.0	5,072.8	5,041.5	17.4	13.8	-145.18	128.5	-395.7	479.0	451.0	27.91	17.160		
5,121.1	5,054.7	5,092.8	5,061.4	17.5	13.9	-145.32	128.9	-396.7	482.0	454.0	28.00	17.212		
5,200.0	5,132.3	5,167.0	5,135.6	17.8	14.0	-146.03	129.8	-399.2	492.7	464.4	28.31	17.406		
5,300.0	5,231.2	5,262.7	5,231.2	18.1	14.1	-146.97	130.0	-399.9	504.7	476.1	28.61	17.641		
5,400.0	5,330.6	5,362.1	5,330.6	18.3	14.3	-147.75	130.0	-399.9	514.1	485.2	28.91	17.783		
5,500.0	5,430.3	5,461.8	5,430.3	18.5	14.5	-148.26	130.0	-399.9	520.6	491.4	29.21	17.825		
5,600.0	5,530.2	5,561.7	5,530.2	18.7	14.7	-148.54	130.0	-399.9	524.2	494.7	29.49	17.774		
5,669.8	5,600.0	5,631.4	5,600.0	18.8	14.8	-179.99	130.0	-399.9	524.9	494.9	30.02	17.484		
5,700.0	5,630.2	5,661.7	5,630.2	18.8	14.8	-179.99	130.0	-399.9	524.9	494.8	30.13	17.423		
5,800.0	5,730.2	5,761.7	5,730.2	19.0	15.0	-179.99	130.0	-399.9	524.9	494.4	30.49	17.218		
5,873.4	5,803.6	5,835.0	5,803.6	19.1	15.2	-179.99	130.0	-399.9	524.9	494.2	30.75	17.070		
5,884.2	5,814.4	5,845.8	5,814.4	19.1	15.2	-89.99	130.0	-399.8	524.9	494.5	30.46	17.235		
5,900.0	5,830.2	5,861.7	5,830.2	19.1	15.2	-89.99	130.0	-399.4	524.9	494.4	30.50	17.209		
5,950.0	5,880.1	5,911.6	5,880.1	19.1	15.3	-89.99	130.0	-396.1	524.9	494.3	30.61	17.146		
6,000.0	5,929.6	5,961.6	5,929.6	19.2	15.3	-89.99	130.0	-389.5	524.9	494.2	30.69	17.106		
6,050.0	5,978.6	6,011.6	5,978.6	19.2	15.3	-90.00	130.0	-379.6	524.9	494.2	30.72	17.087		
6,100.0	6,026.9	6,061.6	6,026.9	19.2	15.3	-90.00	130.0	-366.6	524.9	494.2	30.72	17.085		
6,150.0	6,074.2	6,111.6	6,074.2	19.2	15.3	-90.00	130.0	-350.5	524.9	494.2	30.70	17.096		
6,200.0	6,120.4	6,161.6	6,120.4	19.1	15.3	-90.00	130.0	-331.3	524.9	494.2	30.67	17.113		
6,250.0	6,165.1	6,211.6	6,165.2	19.1	15.3	-90.01	130.0	-309.1	524.9	494.3	30.64	17.130		
6,300.0	6,208.4	6,261.6	6,208.4	19.1	15.2	-90.01	130.0	-284.0	524.9	494.3	30.63	17.138		
6,350.0	6,249.9	6,311.7	6,250.0	19.0	15.2	-90.01	130.0	-256.2	524.9	494.3	30.65	17.128		
6,400.0	6,289.5	6,361.7	6,289.6	18.9	15.3	-90.02	130.0	-225.7	524.9	494.2	30.72	17.089		
6,450.0	6,327.0	6,411.7	6,327.1	18.9	15.3	-90.02	130.0	-192.6	524.9	494.0	30.86	17.009		
6,500.0	6,362.3	6,461.7	6,362.4	18.8	15.4	-90.02	130.0	-157.2	524.9	493.8	31.10	16.877		
6,550.0	6,395.2	6,511.7	6,395.3	18.8	15.6	-90.02	130.0	-119.6	524.9	493.4	31.46	16.684		
6,600.0	6,425.5	6,561.7	6,425.7	18.7	15.8	-90.03	130.0	-79.8	524.9	493.0	31.96	16.425		
6,650.0	6,453.2	6,611.7	6,453.4	18.7	16.1	-90.03	130.0	-38.2	524.9	492.3	32.61	16.098		
6,700.0	6,478.1	6,661.7	6,478.3	18.6	16.5	-90.03	130.0	5.1	524.9	491.5	33.42	15.706		
6,750.0	6,500.1	6,711.8	6,500.4	18.6	17.0	-90.03	130.0	50.0	524.9	490.5	34.41	15.256		
6,800.0	6,519.1	6,761.8	6,519.4	18.5	17.6	-90.03	130.0	96.3	524.9	489.4	35.56	14.760		
6,850.0	6,535.1	6,811.8	6,535.4	18.6	18.3	-90.04	130.0	143.7	524.9	488.0	36.88	14.232		
6,900.0	6,547.9	6,861.8	6,548.3	19.4	19.0	-90.04	130.0	192.0	524.9	486.6	38.36	13.685		
6,950.0	6,557.6	6,911.9	6,557.9	20.2	19.8	-90.04	130.0	241.1	524.9	484.9	39.97	13.134		
7,000.0	6,564.0	6,961.9	6,564.4	21.1	20.7	-90.04	130.0	290.7	524.9	483.2	41.70	12.588		
7,050.0	6,567.2	7,011.9	6,567.5	22.0	21.6	-90.04	130.0	340.6	524.9	481.4	43.53	12.059		
7,079.1	6,567.5	7,041.0	6,567.9	22.6	22.2	-90.04	130.0	369.7	524.9	480.3	44.63	11.762		
7,100.0	6,567.3	7,061.9	6,567.7	23.0	22.6	-90.04	130.0	390.6	524.9	479.5	45.44	11.551		
7,200.0	6,566.6	7,161.9	6,566.8	25.1	24.6	-90.02	130.0	490.6	524.9	475.4	49.52	10.599		
7,300.0	6,565.8	7,261.9	6,565.9	27.3	26.8	-90.00	130.0	590.6	524.9	471.0	53.87	9.744		
7,400.0	6,565.1	7,361.9	6,565.0	29.6	29.1	-89.99	130.0	690.6	524.9	466.5	58.44	8.983		
7,500.0	6,564.3	7,461.9	6,564.1	31.9	31.5	-89.97	130.0	790.6	524.9	461.7	63.17	8.309		
7,600.0	6,563.6	7,561.9	6,563.2	34.4	33.9	-89.95	130.0	890.6	524.9	456.9	68.04	7.715		
7,700.0	6,562.8	7,661.9	6,562.3	36.9	36.4	-89.94	130.0	990.6	524.9	451.9	73.02	7.189		
7,800.0	6,562.1	7,761.9	6,561.3	39.4	39.0	-89.92	130.0	1,090.6	524.9	446.8	78.09	6.722		
7,900.0	6,561.3	7,861.9	6,560.4	42.0	41.5	-89.90	130.0	1,190.5	524.9	441.7	83.22	6.307		
8,000.0	6,560.6	7,961.9	6,559.5	44.5	44.1	-89.88	130.0	1,290.5	524.9	436.5	88.42	5.937		
8,100.0	6,559.8	8,061.9	6,558.6	47.2	46.8	-89.87	130.0	1,390.5	524.9	431.3	93.66	5.604		
8,200.0	6,559.1	8,161.9	6,557.7	49.8	49.4	-89.85	130.0	1,490.5	524.9	426.0	98.95	5.305		
8,300.0	6,558.3	8,261.9	6,556.8	52.4	52.1	-89.83	130.0	1,590.5	524.9	420.7	104.27	5.034		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,400.0	6,557.6	8,361.9	6,555.9	55.1	54.8	89.82	130.0	1,690.5	524.9	415.3	109.62	4.789	
8,500.0	6,556.8	8,461.9	6,555.0	57.8	57.4	89.80	130.0	1,790.5	524.9	409.9	114.99	4.565	
8,600.0	6,556.1	8,561.9	6,554.1	60.5	60.1	89.78	130.0	1,890.5	524.9	404.5	120.39	4.360	
8,700.0	6,555.3	8,661.9	6,553.2	63.2	62.9	89.76	130.0	1,990.5	524.9	399.1	125.81	4.172	
8,800.0	6,554.6	8,761.9	6,552.3	65.9	65.6	89.75	130.0	2,090.5	524.9	393.7	131.24	4.000	
8,900.0	6,553.8	8,861.9	6,551.4	68.6	68.3	89.73	130.0	2,190.5	524.9	388.2	136.69	3.840	
9,000.0	6,553.1	8,961.9	6,550.5	71.3	71.0	89.71	130.0	2,290.5	524.9	382.8	142.16	3.693	
9,100.0	6,552.3	9,061.9	6,549.5	74.1	73.8	89.70	130.0	2,390.5	524.9	377.3	147.63	3.556	
9,200.0	6,551.6	9,161.9	6,548.6	76.8	76.5	89.68	130.0	2,490.5	524.9	371.8	153.11	3.428	
9,300.0	6,550.8	9,261.9	6,547.7	79.5	79.3	89.66	130.0	2,590.5	524.9	366.3	158.61	3.310	
9,400.0	6,550.1	9,361.9	6,546.8	82.3	82.0	89.64	130.0	2,690.5	524.9	360.8	164.11	3.199	
9,500.0	6,549.3	9,461.9	6,545.9	85.0	84.8	89.63	130.0	2,790.5	524.9	355.3	169.62	3.095	
9,600.0	6,548.6	9,561.9	6,545.0	87.8	87.5	89.61	130.0	2,890.5	524.9	349.8	175.14	2.997	
9,700.0	6,547.8	9,661.9	6,544.1	90.6	90.3	89.59	130.0	2,990.5	525.0	344.3	180.66	2.906	
9,800.0	6,547.1	9,761.9	6,543.2	93.3	93.1	89.58	130.0	3,090.5	525.0	338.8	186.19	2.819	
9,900.0	6,546.3	9,861.9	6,542.3	96.1	95.8	89.56	130.0	3,190.5	525.0	333.2	191.72	2.738	
10,000.0	6,545.6	9,961.9	6,541.4	98.8	98.6	89.54	130.0	3,290.5	525.0	327.7	197.26	2.661	
10,100.0	6,544.8	10,061.9	6,540.5	101.6	101.4	89.52	130.0	3,390.5	525.0	322.2	202.81	2.588	
10,200.0	6,544.1	10,161.9	6,539.6	104.4	104.2	89.51	130.0	3,490.5	525.0	316.6	208.35	2.520	
10,300.0	6,543.3	10,261.9	6,538.7	107.2	106.9	89.49	130.0	3,590.4	525.0	311.1	213.90	2.454	
10,400.0	6,542.6	10,361.9	6,537.7	109.9	109.7	89.47	130.0	3,690.4	525.0	305.5	219.46	2.392	
10,500.0	6,541.8	10,461.9	6,536.8	112.7	112.5	89.46	130.0	3,790.4	525.0	300.0	225.01	2.333	
10,600.0	6,541.1	10,561.9	6,535.9	115.5	115.3	89.44	130.0	3,890.4	525.0	294.4	230.58	2.277	
10,700.0	6,540.3	10,661.9	6,535.0	118.3	118.0	89.42	130.0	3,990.4	525.0	288.8	236.14	2.223	
10,800.0	6,539.6	10,761.9	6,534.1	121.0	120.8	89.40	130.0	4,090.4	525.0	283.3	241.70	2.172	
10,900.0	6,538.8	10,861.9	6,533.2	123.8	123.6	89.39	130.0	4,190.4	525.0	277.7	247.27	2.123	
11,000.0	6,538.1	10,961.9	6,532.3	126.6	126.4	89.37	130.0	4,290.4	525.0	272.1	252.84	2.076	
11,100.0	6,537.3	11,061.9	6,531.4	129.4	129.2	89.35	130.0	4,390.4	525.0	266.6	258.41	2.032	
11,200.0	6,536.6	11,161.9	6,530.5	132.2	132.0	89.34	130.0	4,490.4	525.0	261.0	263.99	1.989	
11,300.0	6,535.8	11,261.9	6,529.6	135.0	134.8	89.32	130.0	4,590.4	525.0	255.4	269.56	1.948	
11,400.0	6,535.1	11,361.9	6,528.7	137.7	137.6	89.30	130.0	4,690.4	525.0	249.9	275.14	1.908	
11,500.0	6,534.3	11,461.9	6,527.8	140.5	140.3	89.28	130.0	4,790.4	525.0	244.3	280.72	1.870	
11,600.0	6,533.6	11,561.9	6,526.9	143.3	143.1	89.27	130.0	4,890.4	525.0	238.7	286.30	1.834	
11,700.0	6,532.8	11,661.9	6,525.9	146.1	145.9	89.25	130.0	4,990.4	525.0	233.1	291.88	1.799	
11,800.0	6,532.1	11,761.9	6,525.0	148.9	148.7	89.23	130.0	5,090.4	525.0	227.5	297.46	1.765	
11,900.0	6,531.3	11,861.9	6,524.1	151.7	151.5	89.22	130.0	5,190.4	525.0	222.0	303.05	1.732	
12,000.0	6,530.6	11,961.9	6,523.2	154.5	154.3	89.20	130.0	5,290.4	525.0	216.4	308.63	1.701	
12,100.0	6,529.8	12,061.9	6,522.3	157.3	157.1	89.18	130.0	5,390.4	525.0	210.8	314.22	1.671	
12,200.0	6,529.1	12,161.9	6,521.4	160.1	159.9	89.16	130.0	5,490.4	525.0	205.2	319.81	1.642	
12,300.0	6,528.3	12,261.9	6,520.5	162.9	162.7	89.15	130.0	5,590.4	525.0	199.6	325.39	1.613	
12,400.0	6,527.6	12,361.9	6,519.6	165.7	165.5	89.13	130.0	5,690.4	525.0	194.0	330.98	1.586	
12,500.0	6,526.8	12,461.9	6,518.7	168.5	168.3	89.11	130.0	5,790.4	525.0	188.5	336.57	1.560	
12,600.0	6,526.1	12,561.9	6,517.8	171.3	171.1	89.10	130.0	5,890.4	525.0	182.9	342.16	1.534	
12,700.0	6,525.3	12,661.9	6,516.9	174.0	173.9	89.08	130.0	5,990.3	525.0	177.3	347.75	1.510	
12,800.0	6,524.6	12,761.9	6,516.0	176.8	176.7	89.06	130.0	6,090.3	525.0	171.7	353.35	1.486 Level 3	
12,900.0	6,523.8	12,861.9	6,515.1	179.6	179.5	89.04	130.0	6,190.3	525.0	166.1	358.94	1.463 Level 3	
13,000.0	6,523.1	12,961.9	6,514.1	182.4	182.3	89.03	130.0	6,290.3	525.0	160.5	364.53	1.440 Level 3	
13,100.0	6,522.3	13,061.9	6,513.2	185.2	185.1	89.01	130.0	6,390.3	525.0	154.9	370.13	1.419 Level 3	
13,200.0	6,521.6	13,161.9	6,512.3	188.0	187.9	88.99	130.0	6,490.3	525.0	149.3	375.72	1.397 Level 3	
13,300.0	6,520.8	13,261.9	6,511.4	190.8	190.7	88.98	130.0	6,590.3	525.1	143.7	381.32	1.377 Level 3	
13,400.0	6,520.1	13,361.9	6,510.5	193.6	193.5	88.96	130.0	6,690.3	525.1	138.1	386.91	1.357 Level 3	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-212 - Wellbore #1 - Plan #1 (11-2-15)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
13,500.0	6,519.3	13,461.9	6,509.6	196.4	196.3	88.94	130.0	6,790.3	525.1	132.5	392.51	1.338	Level 3	
13,600.0	6,518.6	13,561.9	6,508.7	199.2	199.1	88.92	130.0	6,890.3	525.1	127.0	398.11	1.319	Level 3	
13,675.2	6,518.0	13,637.1	6,508.0	201.3	201.2	88.91	130.0	6,965.5	525.1	122.8	402.31	1.305	Level 3, SF	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	129.79	-28.8	34.6	45.0				
100.0	100.0	100.0	100.0	0.1	0.1	129.79	-28.8	34.6	45.0	44.7	0.22	200.054	
200.0	200.0	200.0	200.0	0.3	0.3	129.79	-28.8	34.6	45.0	44.3	0.67	66.685	
300.0	300.0	300.0	300.0	0.6	0.6	129.79	-28.8	34.6	45.0	43.8	1.12	40.011	
400.0	400.0	400.0	400.0	0.8	0.8	129.79	-28.8	34.6	45.0	43.4	1.57	28.579	
500.0	500.0	500.0	500.0	1.0	1.0	129.79	-28.8	34.6	45.0	42.9	2.02	22.228	
600.0	600.0	600.0	600.0	1.2	1.2	129.79	-28.8	34.6	45.0	42.5	2.47	18.187	
700.0	700.0	700.0	700.0	1.5	1.5	129.79	-28.8	34.6	45.0	42.0	2.92	15.389	
800.0	800.0	800.0	800.0	1.7	1.7	129.79	-28.8	34.6	45.0	41.6	3.37	13.337	
900.0	900.0	900.0	900.0	1.9	1.9	129.79	-28.8	34.6	45.0	41.1	3.82	11.768	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	129.79	-28.8	34.6	45.0	40.7	4.27	10.529	CC, ES
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	161.72	-28.8	34.6	46.2	41.5	4.72	9.793	
1,200.0	1,199.9	1,199.9	1,199.9	2.6	2.6	163.12	-28.8	34.6	49.9	44.8	5.16	9.674	
1,300.0	1,299.7	1,299.7	1,299.7	2.8	2.8	165.03	-28.8	34.6	56.2	50.6	5.61	10.030	
1,400.0	1,399.3	1,399.3	1,399.3	3.0	3.0	167.08	-28.8	34.6	65.1	59.1	6.05	10.767	
1,500.0	1,498.6	1,498.6	1,498.6	3.3	3.3	169.01	-28.8	34.6	76.6	70.1	6.49	11.811	
1,600.0	1,597.5	1,597.5	1,597.5	3.6	3.5	170.70	-28.8	34.6	90.8	83.8	6.92	13.108	
1,700.0	1,696.1	1,696.1	1,696.1	3.9	3.7	172.13	-28.8	34.6	107.5	100.2	7.36	14.614	
1,731.5	1,727.1	1,727.1	1,727.1	4.0	3.8	172.52	-28.8	34.6	113.3	105.8	7.49	15.126	
1,800.0	1,794.3	1,794.3	1,794.3	4.2	3.9	173.29	-28.8	34.6	126.3	118.5	7.80	16.186	
1,900.0	1,892.5	1,892.5	1,892.5	4.5	4.1	174.17	-28.8	34.6	145.2	136.9	8.25	17.589	
2,000.0	1,990.6	1,990.6	1,990.6	4.9	4.4	174.84	-28.8	34.6	164.1	155.4	8.71	18.843	
2,100.0	2,088.8	2,090.1	2,090.1	5.2	4.6	175.59	-28.9	33.9	182.8	173.6	9.16	19.962	
2,200.0	2,187.0	2,189.8	2,189.8	5.6	4.8	176.64	-29.3	31.5	200.8	191.2	9.59	20.928	
2,300.0	2,285.1	2,289.7	2,289.6	6.0	5.0	177.95	-30.0	27.3	218.1	208.0	10.03	21.734	
2,400.0	2,383.3	2,389.7	2,389.4	6.4	5.2	179.46	-31.0	21.5	234.8	224.3	10.48	22.399	
2,500.0	2,481.5	2,489.7	2,489.1	6.8	5.4	-178.86	-32.3	13.9	251.1	240.1	10.94	22.942	
2,600.0	2,579.7	2,589.6	2,588.6	7.2	5.6	-177.03	-33.8	4.7	266.9	255.5	11.42	23.379	
2,700.0	2,677.8	2,689.5	2,687.8	7.6	5.8	-175.07	-35.7	-6.3	282.5	270.6	11.91	23.723	
2,800.0	2,776.0	2,789.1	2,786.6	8.0	6.1	-173.00	-37.8	-18.9	298.0	285.5	12.42	23.985	
2,900.0	2,874.2	2,887.6	2,884.1	8.4	6.3	-170.94	-40.1	-32.6	313.5	300.5	12.96	24.195	
3,000.0	2,972.3	2,985.8	2,981.3	8.8	6.6	-169.08	-42.4	-46.2	329.3	315.8	13.50	24.387	
3,100.0	3,070.5	3,084.0	3,078.5	9.2	6.9	-167.39	-44.7	-59.9	345.5	331.4	14.07	24.562	
3,200.0	3,168.7	3,182.2	3,175.7	9.6	7.1	-165.85	-47.0	-73.5	361.9	347.3	14.64	24.722	
3,300.0	3,266.9	3,280.3	3,273.0	10.0	7.4	-164.44	-49.3	-87.2	378.6	363.3	15.22	24.867	
3,400.0	3,365.0	3,378.5	3,370.2	10.4	7.7	-163.15	-51.6	-100.8	395.4	379.6	15.82	25.001	
3,500.0	3,463.2	3,476.7	3,467.4	10.8	8.0	-161.96	-53.9	-114.5	412.5	396.1	16.42	25.123	
3,600.0	3,561.4	3,574.9	3,564.6	11.2	8.3	-160.87	-56.3	-128.1	429.7	412.7	17.03	25.235	
3,700.0	3,659.5	3,673.1	3,661.8	11.6	8.6	-159.87	-58.6	-141.8	447.1	429.4	17.64	25.338	
3,800.0	3,757.7	3,771.3	3,759.0	12.0	8.9	-158.94	-60.9	-155.4	464.5	446.3	18.27	25.433	
3,900.0	3,855.9	3,869.5	3,856.2	12.4	9.2	-158.07	-63.2	-169.1	482.1	463.2	18.89	25.521	
4,000.0	3,954.1	3,967.7	3,953.4	12.9	9.5	-157.27	-65.5	-182.7	499.8	480.3	19.52	25.602	
4,100.0	4,052.2	4,065.9	4,050.6	13.3	9.8	-156.52	-67.8	-196.4	517.6	497.4	20.16	25.678	
4,200.0	4,150.4	4,164.0	4,147.8	13.7	10.2	-155.82	-70.1	-210.0	535.4	514.6	20.79	25.749	
4,300.0	4,248.6	4,262.2	4,245.0	14.1	10.5	-155.17	-72.4	-223.7	553.4	531.9	21.43	25.816	
4,400.0	4,346.8	4,360.4	4,342.3	14.5	10.8	-154.55	-74.7	-237.3	571.4	549.3	22.08	25.878	
4,500.0	4,444.9	4,458.6	4,439.5	14.9	11.1	-153.98	-77.0	-251.0	589.4	566.7	22.73	25.936	
4,600.0	4,543.1	4,556.8	4,536.7	15.3	11.4	-153.44	-79.3	-264.6	607.5	584.1	23.37	25.991	
4,700.0	4,641.3	4,655.0	4,633.9	15.8	11.8	-152.93	-81.6	-278.3	625.7	601.6	24.02	26.043	
4,800.0	4,739.4	4,753.2	4,731.1	16.2	12.1	-152.45	-83.9	-291.9	643.9	619.2	24.68	26.092	
4,900.0	4,837.6	4,851.4	4,828.3	16.6	12.4	-151.99	-86.2	-305.6	662.1	636.8	25.33	26.138	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design		Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)											Offset Site Error:		0.0 ft
Survey Program:		0-MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
5,000.0	4,935.8	4,949.6	4,925.5	17.0	12.7	-151.56	-88.5	-319.2	680.4	654.4	25.99	26.182			
5,100.0	5,034.0	5,047.8	5,022.7	17.4	13.1	-151.15	-90.8	-332.8	698.7	672.1	26.64	26.224			
5,121.1	5,054.7	5,068.5	5,043.3	17.5	13.1	-151.07	-91.3	-335.7	702.6	675.8	26.78	26.233			
5,200.0	5,132.3	5,146.1	5,120.1	17.8	13.4	-150.86	-93.1	-346.5	716.1	688.8	27.32	26.214			
5,300.0	5,231.2	5,244.8	5,217.8	18.1	13.7	-150.46	-95.5	-360.2	730.7	702.7	27.94	26.150			
5,400.0	5,330.6	5,344.5	5,316.5	18.3	14.0	-149.92	-97.8	-374.0	742.2	713.7	28.53	26.015			
5,500.0	5,430.3	5,447.8	5,419.1	18.5	14.3	-149.40	-99.8	-385.8	750.6	721.5	29.03	25.858			
5,600.0	5,530.2	5,551.8	5,522.8	18.7	14.5	-148.99	-101.2	-394.0	755.4	726.0	29.43	25.670			
5,669.8	5,600.0	5,624.6	5,595.5	18.8	14.7	179.82	-101.8	-397.6	756.7	726.9	29.77	25.418			
5,700.0	5,630.2	5,656.2	5,627.0	18.8	14.7	179.89	-101.9	-398.5	756.8	727.0	29.87	25.342			
5,800.0	5,730.2	5,759.4	5,730.2	19.0	14.9	179.96	-102.1	-399.4	757.0	726.8	30.21	25.059			
5,873.4	5,803.6	5,832.7	5,803.6	19.1	15.0	179.96	-102.1	-399.4	757.0	726.5	30.47	24.846			
5,900.0	5,830.2	5,859.4	5,830.2	19.1	15.1	89.99	-102.1	-399.4	757.0	726.5	30.49	24.830			
5,902.3	5,832.5	5,861.7	5,832.5	19.1	15.1	90.00	-102.1	-399.4	757.0	726.5	30.49	24.824			
5,950.0	5,880.1	5,909.3	5,880.1	19.1	15.2	90.25	-102.1	-399.4	757.0	726.3	30.65	24.698			
6,000.0	5,929.6	5,959.4	5,930.2	19.2	15.2	90.60	-102.1	-397.4	757.0	726.2	30.78	24.595			
6,050.0	5,978.6	6,009.9	5,980.4	19.2	15.3	90.94	-102.1	-392.1	757.1	726.2	30.86	24.530			
6,100.0	6,026.9	6,060.7	6,030.4	19.2	15.3	91.29	-102.1	-383.3	757.2	726.3	30.91	24.496			
6,150.0	6,074.2	6,111.7	6,080.0	19.2	15.3	91.63	-102.1	-371.2	757.3	726.4	30.92	24.488			
6,200.0	6,120.4	6,163.1	6,129.0	19.1	15.3	91.96	-102.1	-355.7	757.4	726.5	30.92	24.500			
6,250.0	6,165.1	6,214.9	6,177.2	19.1	15.3	92.29	-102.1	-336.9	757.6	726.7	30.89	24.522			
6,300.0	6,208.4	6,266.9	6,224.2	19.1	15.2	92.60	-102.1	-314.6	757.8	726.9	30.87	24.545			
6,350.0	6,249.9	6,319.2	6,269.9	19.0	15.2	92.91	-102.1	-289.1	758.0	727.1	30.87	24.555			
6,400.0	6,289.5	6,371.9	6,313.9	18.9	15.2	93.20	-102.1	-260.3	758.2	727.3	30.90	24.535			
6,450.0	6,327.0	6,424.8	6,366.1	18.9	15.2	93.48	-102.1	-228.4	758.4	727.4	30.99	24.469			
6,500.0	6,362.3	6,478.0	6,396.2	18.8	15.3	93.75	-102.1	-193.4	758.6	727.4	31.17	24.337			
6,550.0	6,395.2	6,531.5	6,434.0	18.8	15.4	94.00	-102.1	-155.5	758.8	727.4	31.46	24.123			
6,600.0	6,425.5	6,565.3	6,469.2	18.7	15.6	94.23	-102.1	-114.9	759.1	727.2	31.88	23.812			
6,650.0	6,453.2	6,639.3	6,501.5	18.7	15.9	94.44	-102.1	-71.7	759.3	726.8	32.45	23.396			
6,700.0	6,478.1	6,693.5	6,530.9	18.6	16.2	94.63	-102.1	-26.1	759.5	726.3	33.20	22.874			
6,750.0	6,500.1	6,747.9	6,557.0	18.6	16.7	94.80	-102.1	21.6	759.7	725.5	34.14	22.254			
6,800.0	6,519.1	6,802.5	6,579.7	18.5	17.2	94.95	-102.1	71.2	759.8	724.6	35.26	21.548			
6,850.0	6,535.1	6,857.2	6,598.9	18.6	17.9	95.08	-102.1	122.4	760.0	723.4	36.58	20.776			
6,900.0	6,547.9	6,912.1	6,614.4	19.4	18.7	95.18	-102.1	175.0	760.1	722.0	38.07	19.964			
6,950.0	6,557.6	6,967.0	6,626.1	20.2	19.6	95.26	-102.1	228.7	760.2	720.5	39.72	19.136			
7,000.0	6,564.0	7,022.1	6,634.0	21.1	20.5	95.31	-102.1	283.2	760.2	718.7	41.52	18.312			
7,050.0	6,567.2	7,077.2	6,637.8	22.0	21.5	95.34	-102.1	338.1	760.3	716.9	43.42	17.509			
7,079.1	6,567.5	7,109.2	6,638.3	22.6	22.1	95.34	-102.1	370.2	760.3	715.7	44.57	17.057			
7,100.0	6,567.3	7,130.2	6,638.1	23.0	22.5	95.34	-102.1	391.2	760.3	714.9	45.39	16.751			
7,200.0	6,566.6	7,230.2	6,637.3	25.1	24.6	95.33	-102.1	491.2	760.3	710.8	49.43	15.379			
7,300.0	6,565.8	7,330.2	6,636.4	27.3	26.7	95.33	-102.1	591.2	760.3	706.5	53.75	14.143			
7,400.0	6,565.1	7,430.2	6,635.6	29.6	29.0	95.32	-102.1	691.2	760.3	702.0	58.29	13.042			
7,500.0	6,564.3	7,530.2	6,634.8	31.9	31.4	95.31	-102.1	791.2	760.3	697.3	63.00	12.067			
7,600.0	6,563.6	7,630.2	6,633.9	34.4	33.8	95.31	-102.1	891.2	760.2	692.4	67.85	11.205			
7,700.0	6,562.8	7,730.2	6,633.1	36.9	36.3	95.30	-102.1	991.2	760.2	687.4	72.80	10.442			
7,800.0	6,562.1	7,830.2	6,632.2	39.4	38.8	95.29	-102.1	1,091.1	760.2	682.4	77.84	9.766			
7,900.0	6,561.3	7,930.2	6,631.4	42.0	41.4	95.29	-102.1	1,191.1	760.2	677.3	82.96	9.164			
8,000.0	6,560.6	8,030.2	6,630.6	44.5	44.0	95.28	-102.1	1,291.1	760.2	672.1	88.13	8.626			
8,100.0	6,559.8	8,130.2	6,629.7	47.2	46.6	95.27	-102.1	1,391.1	760.2	666.9	93.35	8.144			
8,200.0	6,559.1	8,230.2	6,628.9	49.8	49.3	95.27	-102.1	1,491.1	760.2	661.6	98.61	7.709			
8,300.0	6,558.3	8,330.2	6,628.1	52.4	51.9	95.26	-102.1	1,591.1	760.2	656.3	103.91	7.316			

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,400.0	6,557.6	8,430.2	6,627.2	55.1	54.6	95.26	-102.1	1,691.1	760.2	650.9	109.24	6.959	
8,500.0	6,556.8	8,530.2	6,626.4	57.8	57.3	95.25	-102.1	1,791.1	760.2	645.6	114.60	6.634	
8,600.0	6,556.1	8,630.2	6,625.5	60.5	60.0	95.24	-102.1	1,891.1	760.2	640.2	119.97	6.336	
8,700.0	6,555.3	8,730.2	6,624.7	63.2	62.7	95.24	-102.1	1,991.1	760.2	634.8	125.37	6.063	
8,800.0	6,554.6	8,830.2	6,623.9	65.9	65.4	95.23	-102.1	2,091.1	760.2	629.4	130.79	5.812	
8,900.0	6,553.8	8,930.2	6,623.0	68.6	68.2	95.22	-102.1	2,191.1	760.2	623.9	136.21	5.581	
9,000.0	6,553.1	9,030.2	6,622.2	71.3	70.9	95.22	-102.1	2,291.1	760.1	618.5	141.66	5.366	
9,100.0	6,552.3	9,130.2	6,621.4	74.1	73.6	95.21	-102.1	2,391.1	760.1	613.0	147.11	5.167	
9,200.0	6,551.6	9,230.2	6,620.5	76.8	76.4	95.20	-102.1	2,491.1	760.1	607.6	152.58	4.982	
9,300.0	6,550.8	9,330.2	6,619.7	79.5	79.1	95.20	-102.1	2,591.1	760.1	602.1	158.05	4.809	
9,400.0	6,550.1	9,430.2	6,618.8	82.3	81.9	95.19	-102.1	2,691.1	760.1	596.6	163.53	4.648	
9,500.0	6,549.3	9,530.2	6,618.0	85.0	84.6	95.18	-102.1	2,791.1	760.1	591.1	169.03	4.497	
9,600.0	6,548.6	9,630.2	6,617.2	87.8	87.4	95.18	-102.1	2,891.1	760.1	585.6	174.52	4.355	
9,700.0	6,547.8	9,730.2	6,616.3	90.6	90.2	95.17	-102.1	2,991.1	760.1	580.1	180.03	4.222	
9,800.0	6,547.1	9,830.2	6,615.5	93.3	92.9	95.16	-102.1	3,091.1	760.1	574.6	185.54	4.097	
9,900.0	6,546.3	9,930.2	6,614.6	96.1	95.7	95.16	-102.1	3,191.1	760.1	569.0	191.06	3.978	
10,000.0	6,545.6	10,030.2	6,613.8	98.8	98.5	95.15	-102.1	3,291.1	760.1	563.5	196.58	3.867	
10,100.0	6,544.8	10,130.2	6,613.0	101.6	101.2	95.14	-102.1	3,391.1	760.1	558.0	202.10	3.761	
10,200.0	6,544.1	10,230.2	6,612.1	104.4	104.0	95.14	-102.1	3,491.1	760.1	552.4	207.63	3.661	
10,300.0	6,543.3	10,330.2	6,611.3	107.2	106.8	95.13	-102.1	3,591.1	760.1	546.9	213.16	3.566	
10,400.0	6,542.6	10,430.2	6,610.5	109.9	109.6	95.12	-102.1	3,691.1	760.0	541.3	218.70	3.475	
10,500.0	6,541.8	10,530.2	6,609.6	112.7	112.3	95.12	-102.1	3,791.1	760.0	535.8	224.24	3.389	
10,600.0	6,541.1	10,630.2	6,608.8	115.5	115.1	95.11	-102.1	3,891.0	760.0	530.2	229.79	3.308	
10,700.0	6,540.3	10,730.2	6,607.9	118.3	117.9	95.10	-102.1	3,991.0	760.0	524.7	235.33	3.230	
10,800.0	6,539.6	10,830.2	6,607.1	121.0	120.7	95.10	-102.1	4,091.0	760.0	519.1	240.88	3.155	
10,900.0	6,538.8	10,930.2	6,606.3	123.8	123.5	95.09	-102.1	4,191.0	760.0	513.6	246.43	3.084	
11,000.0	6,538.1	11,030.2	6,605.4	126.6	126.3	95.08	-102.1	4,291.0	760.0	508.0	251.99	3.016	
11,100.0	6,537.3	11,130.2	6,604.6	129.4	129.0	95.08	-102.1	4,391.0	760.0	502.5	257.54	2.951	
11,200.0	6,536.6	11,230.2	6,603.8	132.2	131.8	95.07	-102.1	4,491.0	760.0	496.9	263.10	2.889	
11,300.0	6,535.8	11,330.2	6,602.9	135.0	134.6	95.07	-102.1	4,591.0	760.0	491.3	268.66	2.829	
11,400.0	6,535.1	11,430.2	6,602.1	137.7	137.4	95.06	-102.1	4,691.0	760.0	485.8	274.22	2.771	
11,500.0	6,534.3	11,530.2	6,601.2	140.5	140.2	95.05	-102.1	4,791.0	760.0	480.2	279.79	2.716	
11,600.0	6,533.6	11,630.2	6,600.4	143.3	143.0	95.05	-102.1	4,891.0	760.0	474.6	285.35	2.663	
11,700.0	6,532.8	11,730.2	6,599.6	146.1	145.8	95.04	-102.1	4,991.0	760.0	469.0	290.92	2.612	
11,800.0	6,532.1	11,830.2	6,598.7	148.9	148.6	95.03	-102.1	5,091.0	760.0	463.5	296.49	2.563	
11,900.0	6,531.3	11,930.2	6,597.9	151.7	151.4	95.03	-102.1	5,191.0	759.9	457.9	302.05	2.516	
12,000.0	6,530.6	12,030.2	6,597.1	154.5	154.2	95.02	-102.1	5,291.0	759.9	452.3	307.63	2.470	
12,100.0	6,529.8	12,130.2	6,596.2	157.3	157.0	95.01	-102.1	5,391.0	759.9	446.7	313.20	2.426	
12,200.0	6,529.1	12,230.2	6,595.4	160.1	159.8	95.01	-102.1	5,491.0	759.9	441.2	318.77	2.384	
12,300.0	6,528.3	12,330.2	6,594.5	162.9	162.6	95.00	-102.1	5,591.0	759.9	435.6	324.35	2.343	
12,400.0	6,527.6	12,430.2	6,593.7	165.7	165.4	94.99	-102.1	5,691.0	759.9	430.0	329.92	2.303	
12,500.0	6,526.8	12,530.2	6,592.9	168.5	168.1	94.99	-102.1	5,791.0	759.9	424.4	335.50	2.265	
12,600.0	6,526.1	12,630.2	6,592.0	171.3	170.9	94.98	-102.1	5,891.0	759.9	418.8	341.08	2.228	
12,700.0	6,525.3	12,730.2	6,591.2	174.0	173.7	94.97	-102.1	5,991.0	759.9	413.2	346.65	2.192	
12,800.0	6,524.6	12,830.2	6,590.4	176.8	176.5	94.97	-102.1	6,091.0	759.9	407.6	352.23	2.157	
12,900.0	6,523.8	12,930.2	6,589.5	179.6	179.3	94.96	-102.1	6,191.0	759.9	402.1	357.81	2.124	
13,000.0	6,523.1	13,030.2	6,588.7	182.4	182.1	94.95	-102.1	6,291.0	759.9	396.5	363.40	2.091	
13,100.0	6,522.3	13,130.2	6,587.8	185.2	184.9	94.95	-102.1	6,391.0	759.9	390.9	368.98	2.059	
13,200.0	6,521.6	13,230.2	6,587.0	188.0	187.7	94.94	-102.1	6,491.0	759.9	385.3	374.56	2.029	
13,300.0	6,520.8	13,330.2	6,586.2	190.8	190.5	94.93	-102.1	6,591.0	759.8	379.7	380.14	1.999	
13,400.0	6,520.1	13,430.2	6,585.3	193.6	193.3	94.93	-102.1	6,690.9	759.8	374.1	385.73	1.970	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design		Bihain 5N64W26GK Pad Sec.26-T5N-R64W - Bihain 26G-312 - Wellbore #1 - Plan #1 (11-2-15)											Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
13,500.0	6,519.3	13,530.2	6,584.5	196.4	196.1	94.92	-102.1	6,790.9	759.8	368.5	391.31	1.942		
13,600.0	6,518.6	13,630.2	6,583.7	199.2	198.9	94.91	-102.1	6,890.9	759.8	362.9	396.90	1.914		
13,675.2	6,518.0	13,705.3	6,583.0	201.3	201.0	94.91	-102.1	6,966.1	759.8	358.7	401.10	1.894 SF		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-2 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 6867-UNKNOWN													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7,400.0	6,565.1	6,545.1	6,545.1	29.6	130.9	91.23	355.6	1,545.3	905.6	745.4	160.24	5.652		
7,500.0	6,564.3	6,544.3	6,544.3	31.9	130.9	91.08	355.6	1,545.3	811.9	649.3	162.59	4.994		
7,600.0	6,563.6	6,543.6	6,543.6	34.4	130.9	90.94	355.6	1,545.3	719.9	554.9	165.01	4.363		
7,700.0	6,562.8	6,542.8	6,542.8	36.9	130.9	90.80	355.6	1,545.3	630.3	462.9	167.48	3.764		
7,800.0	6,562.1	6,542.1	6,542.1	39.4	130.8	90.65	355.6	1,545.3	544.4	374.4	169.99	3.203		
7,900.0	6,561.3	6,541.3	6,541.3	42.0	130.8	90.51	355.6	1,545.3	464.1	291.6	172.54	2.690		
8,000.0	6,560.6	6,540.6	6,540.6	44.5	130.8	90.37	355.6	1,545.3	393.0	217.9	175.12	2.244		
8,100.0	6,559.8	6,539.8	6,539.8	47.2	130.8	90.22	355.6	1,545.3	336.9	159.2	177.72	1.896		
8,200.0	6,559.1	6,539.1	6,539.1	49.8	130.8	90.08	355.6	1,545.3	304.3	123.9	180.34	1.687		
8,254.8	6,558.7	6,538.7	6,538.7	51.2	130.8	90.00	355.6	1,545.3	299.3	117.5	181.78	1.646 CC, ES, SF		
8,300.0	6,558.3	6,538.3	6,538.3	52.4	130.8	89.94	355.6	1,545.3	302.7	119.7	182.98	1.654		
8,400.0	6,557.6	6,537.6	6,537.6	55.1	130.8	89.79	355.6	1,545.3	332.7	147.0	185.63	1.792		
8,500.0	6,556.8	6,536.8	6,536.8	57.8	130.7	89.65	355.6	1,545.3	386.9	198.6	188.29	2.055		
8,600.0	6,556.1	6,536.1	6,536.1	60.5	130.7	89.50	355.6	1,545.3	456.9	265.9	190.97	2.393		
8,700.0	6,555.3	6,535.3	6,535.3	63.2	130.7	89.36	355.6	1,545.3	536.5	342.8	193.65	2.770		
8,800.0	6,554.6	6,534.6	6,534.6	65.9	130.7	89.22	355.6	1,545.3	622.0	425.6	196.34	3.168		
8,900.0	6,553.8	6,533.8	6,533.8	68.6	130.7	89.07	355.6	1,545.3	711.3	512.2	199.04	3.573		
9,000.0	6,553.1	6,533.1	6,533.1	71.3	130.7	88.93	355.6	1,545.3	803.1	601.3	201.74	3.981		
9,100.0	6,552.3	6,532.3	6,532.3	74.1	130.6	88.79	355.6	1,545.3	896.6	692.2	204.44	4.386		
9,200.0	6,551.6	6,531.6	6,531.6	76.8	130.6	88.64	355.6	1,545.3	991.5	784.3	207.15	4.786		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 6865-UNKNOWN												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	32.25	376.7	237.7	445.8				
100.0	100.0	82.0	82.0	0.1	1.6	32.25	376.7	237.7	445.4	443.7	1.75	254.146	
200.0	200.0	182.0	182.0	0.3	3.6	32.25	376.7	237.7	445.4	441.4	3.98	111.987	
300.0	300.0	282.0	282.0	0.6	5.6	32.25	376.7	237.7	445.4	439.2	6.20	71.816	
400.0	400.0	382.0	382.0	0.8	7.6	32.25	376.7	237.7	445.4	437.0	8.43	52.856	
500.0	500.0	482.0	482.0	1.0	9.6	32.25	376.7	237.7	445.4	434.8	10.65	41.816	
600.0	600.0	582.0	582.0	1.2	11.6	32.25	376.7	237.7	445.4	432.5	12.88	34.591	
700.0	700.0	682.0	682.0	1.5	13.6	32.25	376.7	237.7	445.4	430.3	15.10	29.495	
800.0	800.0	782.0	782.0	1.7	15.6	32.25	376.7	237.7	445.4	428.1	17.33	25.708	
900.0	900.0	882.0	882.0	1.9	17.6	32.25	376.7	237.7	445.4	425.9	19.55	22.782	
1,000.0	1,000.0	982.0	982.0	2.1	19.6	32.25	376.7	237.7	445.4	423.6	21.78	20.455	
1,100.0	1,100.0	1,082.0	1,082.0	2.4	21.6	63.82	376.7	237.7	444.8	420.8	24.00	18.537	
1,200.0	1,199.9	1,181.9	1,181.9	2.6	23.6	64.30	376.7	237.7	443.1	416.9	26.21	16.904	
1,300.0	1,299.7	1,281.7	1,281.7	2.8	25.6	65.11	376.7	237.7	440.3	411.9	28.43	15.489	
1,400.0	1,399.3	1,381.3	1,381.3	3.0	27.6	66.24	376.7	237.7	436.5	405.9	30.64	14.246	
1,500.0	1,498.6	1,480.6	1,480.6	3.3	29.6	67.73	376.7	237.7	431.9	399.0	32.87	13.141	
1,600.0	1,597.5	1,579.5	1,579.5	3.6	31.6	69.57	376.7	237.7	426.6	391.5	35.10	12.154	
1,700.0	1,696.1	1,678.1	1,678.1	3.9	33.6	71.78	376.7	237.7	421.0	383.6	37.36	11.267	
1,731.5	1,727.1	1,709.1	1,709.1	4.0	34.2	72.56	376.7	237.7	419.1	381.1	38.08	11.007	
1,800.0	1,794.3	1,776.3	1,776.3	4.2	35.5	74.24	376.7	237.7	415.3	375.7	39.66	10.474	
1,900.0	1,892.5	1,874.5	1,874.5	4.5	37.5	76.76	376.7	237.7	410.5	368.5	41.97	9.780	
2,000.0	1,990.6	1,972.6	1,972.6	4.9	39.5	79.32	376.7	237.7	406.5	362.2	44.30	9.175	
2,100.0	2,088.8	2,070.8	2,070.8	5.2	41.4	81.93	376.7	237.7	403.3	356.7	46.64	8.647	
2,200.0	2,187.0	2,169.0	2,169.0	5.6	43.4	84.58	376.7	237.7	401.0	352.1	48.99	8.186	
2,300.0	2,285.1	2,267.1	2,267.1	6.0	45.3	87.25	376.7	237.7	399.7	348.3	51.34	7.785	
2,400.0	2,383.3	2,365.3	2,365.3	6.4	47.3	89.93	376.7	237.7	399.2	345.5	53.69	7.435	
2,402.7	2,386.0	2,368.0	2,368.0	6.4	47.4	90.00	376.7	237.7	399.2	345.4	53.75	7.427	
2,500.0	2,481.5	2,463.5	2,463.5	6.8	49.3	92.61	376.7	237.7	399.6	343.6	56.03	7.132	
2,600.0	2,579.7	2,561.7	2,561.7	7.2	51.2	95.28	376.7	237.7	400.9	342.6	58.37	6.869	
2,700.0	2,677.8	2,659.8	2,659.8	7.6	53.2	97.92	376.7	237.7	403.2	342.5	60.70	6.642	
2,800.0	2,776.0	2,758.0	2,758.0	8.0	55.2	100.54	376.7	237.7	406.3	343.3	63.02	6.447	
2,900.0	2,874.2	2,856.2	2,856.2	8.4	57.1	103.10	376.7	237.7	410.3	344.9	65.32	6.281	
3,000.0	2,972.3	2,954.3	2,954.3	8.8	59.1	105.62	376.7	237.7	415.1	347.4	67.61	6.139	
3,100.0	3,070.5	3,052.5	3,052.5	9.2	61.1	108.08	376.7	237.7	420.7	350.8	69.89	6.019	
3,200.0	3,168.7	3,150.7	3,150.7	9.6	63.0	110.47	376.7	237.7	427.1	354.9	72.16	5.918	
3,300.0	3,266.9	3,248.9	3,248.9	10.0	65.0	112.78	376.7	237.7	434.2	359.8	74.41	5.835	
3,400.0	3,365.0	3,347.0	3,347.0	10.4	66.9	115.02	376.7	237.7	442.0	365.4	76.65	5.766	
3,500.0	3,463.2	3,445.2	3,445.2	10.8	68.9	117.19	376.7	237.7	450.5	371.6	78.88	5.711	
3,600.0	3,561.4	3,543.4	3,543.4	11.2	70.9	119.27	376.7	237.7	459.7	378.6	81.10	5.668	
3,700.0	3,659.5	3,641.5	3,641.5	11.6	72.8	121.27	376.7	237.7	469.4	386.1	83.30	5.635	
3,800.0	3,757.7	3,739.7	3,739.7	12.0	74.8	123.19	376.7	237.7	479.7	394.2	85.50	5.610	
3,900.0	3,855.9	3,837.9	3,837.9	12.4	76.8	125.03	376.7	237.7	490.5	402.8	87.69	5.593	
4,000.0	3,954.1	3,936.1	3,936.1	12.9	78.7	126.79	376.7	237.7	501.8	411.9	89.87	5.584	
4,100.0	4,052.2	4,034.2	4,034.2	13.3	80.7	128.47	376.7	237.7	513.5	421.5	92.04	5.579	
4,200.0	4,150.4	4,132.4	4,132.4	13.7	82.6	130.07	376.7	237.7	525.7	431.5	94.21	5.580	
4,300.0	4,248.6	4,230.6	4,230.6	14.1	84.6	131.61	376.7	237.7	538.3	441.9	96.37	5.586	
4,400.0	4,346.8	4,328.8	4,328.8	14.5	86.6	133.07	376.7	237.7	551.3	452.7	98.53	5.595	
4,500.0	4,444.9	4,426.9	4,426.9	14.9	88.5	134.47	376.7	237.7	564.5	463.9	100.68	5.607	
4,600.0	4,543.1	4,525.1	4,525.1	15.3	90.5	135.81	376.7	237.7	578.2	475.3	102.83	5.622	
4,700.0	4,641.3	4,623.3	4,623.3	15.8	92.5	137.08	376.7	237.7	592.1	487.1	104.98	5.640	
4,800.0	4,739.4	4,721.4	4,721.4	16.2	94.4	138.30	376.7	237.7	606.3	499.1	107.13	5.659	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-3 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 6865-UNKNOWN													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.0	4,837.6	4,819.6	4,819.6	16.6	96.4	139.46	376.7	237.7	620.7	511.4	109.28	5.680		
5,000.0	4,935.8	4,917.8	4,917.8	17.0	98.4	140.56	376.7	237.7	635.4	524.0	111.42	5.703		
5,100.0	5,034.0	5,016.0	5,016.0	17.4	100.3	141.62	376.7	237.7	650.3	536.8	113.56	5.727		
5,121.1	5,054.7	5,036.7	5,036.7	17.5	100.7	141.84	376.7	237.7	653.5	539.5	114.02	5.732		
5,200.0	5,132.3	5,114.3	5,114.3	17.8	102.3	142.71	376.7	237.7	664.6	548.6	115.99	5.730		
5,300.0	5,231.2	5,213.2	5,213.2	18.1	104.3	143.60	376.7	237.7	676.3	557.9	118.43	5.711		
5,400.0	5,330.6	5,312.6	5,312.6	18.3	106.3	144.26	376.7	237.7	685.4	564.6	120.81	5.673		
5,500.0	5,430.3	5,412.3	5,412.3	18.5	108.2	144.70	376.7	237.7	691.6	568.5	123.12	5.617		
5,600.0	5,530.2	5,512.2	5,512.2	18.7	110.2	144.94	376.7	237.7	695.0	569.7	125.34	5.545		
5,669.8	5,600.0	5,582.0	5,582.0	18.8	111.6	113.57	376.7	237.7	695.7	566.8	128.90	5.397		
5,700.0	5,630.2	5,612.2	5,612.2	18.8	112.2	113.57	376.7	237.7	695.7	566.2	129.55	5.370		
5,800.0	5,730.2	5,712.2	5,712.2	19.0	114.2	113.57	376.7	237.7	695.7	564.0	131.71	5.282		
5,873.4	5,803.6	5,785.6	5,785.6	19.1	115.7	113.57	376.7	237.7	695.7	562.4	133.29	5.219		
5,900.0	5,830.2	5,812.2	5,812.2	19.1	116.2	23.60	376.7	237.7	695.3	563.6	131.72	5.278		
5,950.0	5,880.1	5,862.1	5,862.1	19.1	117.2	23.80	376.7	237.7	692.2	560.0	132.20	5.236		
6,000.0	5,929.6	5,911.6	5,911.6	19.2	118.2	24.21	376.7	237.7	686.1	554.0	132.18	5.191		
6,050.0	5,978.6	5,960.6	5,960.6	19.2	119.2	24.84	376.7	237.7	677.1	545.5	131.67	5.143		
6,100.0	6,026.9	6,008.9	6,008.9	19.2	120.2	25.71	376.7	237.7	665.3	534.6	130.69	5.090		
6,150.0	6,074.2	6,056.2	6,056.2	19.2	121.1	26.83	376.7	237.7	650.6	521.3	129.31	5.031		
6,200.0	6,120.4	6,102.4	6,102.4	19.1	122.0	28.25	376.7	237.7	633.3	505.7	127.59	4.963		
6,250.0	6,165.1	6,147.1	6,147.1	19.1	122.9	30.01	376.7	237.7	613.4	487.7	125.68	4.881		
6,300.0	6,208.4	6,190.4	6,190.4	19.1	123.8	32.17	376.7	237.7	591.2	467.4	123.73	4.778		
6,350.0	6,249.9	6,231.9	6,231.9	19.0	124.6	34.77	376.7	237.7	566.7	444.7	122.00	4.645		
6,400.0	6,289.5	6,271.5	6,271.5	18.9	125.4	37.89	376.7	237.7	540.3	419.5	120.80	4.473		
6,450.0	6,327.0	6,309.0	6,309.0	18.9	126.2	41.60	376.7	237.7	512.3	391.8	120.50	4.252		
6,500.0	6,362.3	6,344.3	6,344.3	18.8	126.9	45.94	376.7	237.7	482.9	361.5	121.44	3.977		
6,550.0	6,395.2	6,377.2	6,377.2	18.8	127.5	50.92	376.7	237.7	452.7	328.8	123.84	3.655		
6,600.0	6,425.5	6,407.5	6,407.5	18.7	128.2	56.48	376.7	237.7	422.1	294.4	127.65	3.306		
6,650.0	6,453.2	6,435.2	6,435.2	18.7	128.7	62.45	376.7	237.7	391.7	259.3	132.43	2.958		
6,700.0	6,478.1	6,460.1	6,460.1	18.6	129.2	68.58	376.7	237.7	362.5	225.0	137.47	2.637		
6,750.0	6,500.1	6,482.1	6,482.1	18.6	129.6	74.52	376.7	237.7	335.5	193.5	142.03	2.362		
6,800.0	6,519.1	6,501.1	6,501.1	18.5	130.0	79.91	376.7	237.7	312.0	166.4	145.61	2.143		
6,850.0	6,535.1	6,517.1	6,517.1	18.6	130.3	84.44	376.7	237.7	293.6	145.5	148.12	1.982		
6,900.0	6,547.9	6,529.9	6,529.9	19.4	130.6	87.89	376.7	237.7	281.9	132.1	149.77	1.882		
6,946.5	6,557.0	6,539.0	6,539.0	20.2	130.8	90.00	376.7	237.7	278.2	127.3	150.87	1.844 CC		
6,950.0	6,557.6	6,539.6	6,539.6	20.2	130.8	90.11	376.7	237.7	278.2	127.3	150.94	1.843 ES, SF		
7,000.0	6,564.0	6,546.0	6,546.0	21.1	130.9	91.05	376.7	237.7	283.2	131.3	151.94	1.864		
7,050.0	6,567.2	6,549.2	6,549.2	22.0	131.0	90.65	376.7	237.7	296.6	143.7	152.91	1.940		
7,079.1	6,567.5	6,549.5	6,549.5	22.6	131.0	89.80	376.7	237.7	307.9	154.5	153.44	2.007		
7,100.0	6,567.3	6,549.3	6,549.3	23.0	131.0	89.76	376.7	237.7	317.5	163.6	153.84	2.064		
7,200.0	6,566.6	6,548.6	6,548.6	25.1	131.0	89.61	376.7	237.7	376.0	220.1	155.84	2.413		
7,300.0	6,565.8	6,547.8	6,547.8	27.3	131.0	89.45	376.7	237.7	449.4	291.4	157.99	2.844		
7,400.0	6,565.1	6,547.1	6,547.1	29.6	130.9	89.30	376.7	237.7	531.5	371.3	160.24	3.317		
7,500.0	6,564.3	6,546.3	6,546.3	31.9	130.9	89.15	376.7	237.7	618.9	456.4	162.57	3.807		
7,600.0	6,563.6	6,545.6	6,545.6	34.4	130.9	88.99	376.7	237.7	709.7	544.7	164.97	4.302		
7,700.0	6,562.8	6,544.8	6,544.8	36.9	130.9	88.84	376.7	237.7	802.6	635.2	167.43	4.794		
7,800.0	6,562.1	6,544.1	6,544.1	39.4	130.9	88.68	376.7	237.7	897.1	727.2	169.93	5.279		
7,900.0	6,561.3	6,543.3	6,543.3	42.0	130.9	88.53	376.7	237.7	992.7	820.2	172.46	5.756		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Monfort Kuner B 26-7 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 7312-UNKNOWN													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.0	6,555.3	6,531.3	6,531.3	63.2	130.6	91.40	383.1	2,873.0	923.4	729.8	193.59	4.770		
8,800.0	6,554.6	6,530.6	6,530.6	65.9	130.6	91.24	383.1	2,873.0	828.4	632.1	196.30	4.220		
8,900.0	6,553.8	6,529.8	6,529.8	68.6	130.6	91.08	383.1	2,873.0	734.6	535.6	199.01	3.691		
9,000.0	6,553.1	6,529.1	6,529.1	71.3	130.6	90.92	383.1	2,873.0	642.8	441.1	201.73	3.186		
9,100.0	6,552.3	6,528.3	6,528.3	74.1	130.6	90.76	383.1	2,873.0	553.8	349.4	204.45	2.709		
9,200.0	6,551.6	6,527.6	6,527.6	76.8	130.6	90.60	383.1	2,873.0	469.3	262.1	207.18	2.265		
9,300.0	6,550.8	6,526.8	6,526.8	79.5	130.5	90.45	383.1	2,873.0	392.1	182.1	209.91	1.868		
9,400.0	6,550.1	6,526.1	6,526.1	82.3	130.5	90.29	383.1	2,873.0	327.4	114.8	212.65	1.540		
9,500.0	6,549.3	6,525.3	6,525.3	85.0	130.5	90.13	383.1	2,873.0	284.1	68.7	215.38	1.319	Level 3	
9,582.5	6,548.7	6,524.7	6,524.7	87.3	130.5	90.00	383.1	2,873.0	271.9	54.2	217.64	1.249	Level 2, CC, ES	
9,600.0	6,548.6	6,524.6	6,524.6	87.8	130.5	89.97	383.1	2,873.0	272.4	54.3	218.12	1.249	Level 2, SF	
9,700.0	6,547.8	6,523.8	6,523.8	90.6	130.5	89.81	383.1	2,873.0	296.2	75.3	220.86	1.341	Level 3	
9,800.0	6,547.1	6,523.1	6,523.1	93.3	130.5	89.66	383.1	2,873.0	348.1	124.5	223.60	1.557		
9,900.0	6,546.3	6,522.3	6,522.3	96.1	130.4	89.50	383.1	2,873.0	418.0	191.6	226.34	1.847		
10,000.0	6,545.6	6,521.6	6,521.6	98.8	130.4	89.34	383.1	2,873.0	498.2	269.1	229.09	2.175		
10,100.0	6,544.8	6,520.8	6,520.8	101.6	130.4	89.18	383.1	2,873.0	584.5	352.7	231.83	2.521		
10,200.0	6,544.1	6,520.1	6,520.1	104.4	130.4	89.02	383.1	2,873.0	674.7	440.1	234.57	2.876		
10,300.0	6,543.3	6,519.3	6,519.3	107.2	130.4	88.87	383.1	2,873.0	767.3	529.9	237.32	3.233		
10,400.0	6,542.6	6,518.6	6,518.6	109.9	130.4	88.71	383.1	2,873.0	861.5	621.4	240.06	3.589		
10,500.0	6,541.8	6,517.8	6,517.8	112.7	130.4	88.55	383.1	2,873.0	956.9	714.1	242.80	3.941		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Monfort Kuner B 26-8 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 6840-UNKNOWN													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,000.0	6,545.6	6,518.6	6,518.6	98.8	130.4	91.34	375.2	4,164.5	917.7	688.6	229.04	4.006		
10,100.0	6,544.8	6,517.8	6,517.8	101.6	130.4	91.19	375.2	4,164.5	823.0	591.2	231.81	3.550		
10,200.0	6,544.1	6,517.1	6,517.1	104.4	130.3	91.04	375.2	4,164.5	729.7	495.2	234.57	3.111		
10,300.0	6,543.3	6,516.3	6,516.3	107.2	130.3	90.88	375.2	4,164.5	638.5	401.2	237.34	2.690		
10,400.0	6,542.6	6,515.6	6,515.6	109.9	130.3	90.73	375.2	4,164.5	550.4	310.3	240.10	2.292		
10,500.0	6,541.8	6,514.8	6,514.8	112.7	130.3	90.57	375.2	4,164.5	467.0	224.2	242.87	1.923		
10,600.0	6,541.1	6,514.1	6,514.1	115.5	130.3	90.42	375.2	4,164.5	391.6	145.9	245.64	1.594		
10,700.0	6,540.3	6,513.3	6,513.3	118.3	130.3	90.27	375.2	4,164.5	329.4	81.0	248.40	1.326	Level 3	
10,800.0	6,539.6	6,512.6	6,512.6	121.0	130.3	90.11	375.2	4,164.5	289.3	38.2	251.17	1.152	Level 2	
10,874.0	6,539.0	6,512.0	6,512.0	123.1	130.2	90.00	375.2	4,164.5	279.7	26.5	253.21	1.105	Level 2, CC, ES, SF	
10,900.0	6,538.8	6,511.8	6,511.8	123.8	130.2	89.96	375.2	4,164.5	280.9	27.0	253.93	1.106	Level 2	
11,000.0	6,538.1	6,511.1	6,511.1	126.6	130.2	89.81	375.2	4,164.5	306.8	50.1	256.70	1.195	Level 2	
11,100.0	6,537.3	6,510.3	6,510.3	129.4	130.2	89.65	375.2	4,164.5	359.6	100.1	259.46	1.386	Level 3	
11,200.0	6,536.6	6,509.6	6,509.6	132.2	130.2	89.50	375.2	4,164.5	429.5	167.3	262.22	1.638		
11,300.0	6,535.8	6,508.8	6,508.8	135.0	130.2	89.35	375.2	4,164.5	509.6	244.6	264.98	1.923		
11,400.0	6,535.1	6,508.1	6,508.1	137.7	130.2	89.19	375.2	4,164.5	595.7	328.0	267.74	2.225		
11,500.0	6,534.3	6,507.3	6,507.3	140.5	130.1	89.04	375.2	4,164.5	685.6	415.1	270.50	2.535		
11,600.0	6,533.6	6,506.6	6,506.6	143.3	130.1	88.88	375.2	4,164.5	778.0	504.7	273.26	2.847		
11,700.0	6,532.8	6,505.8	6,505.8	146.1	130.1	88.73	375.2	4,164.5	872.0	596.0	276.02	3.159		
11,800.0	6,532.1	6,505.1	6,505.1	148.9	130.1	88.58	375.2	4,164.5	967.3	688.5	278.77	3.470		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Bihain 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

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

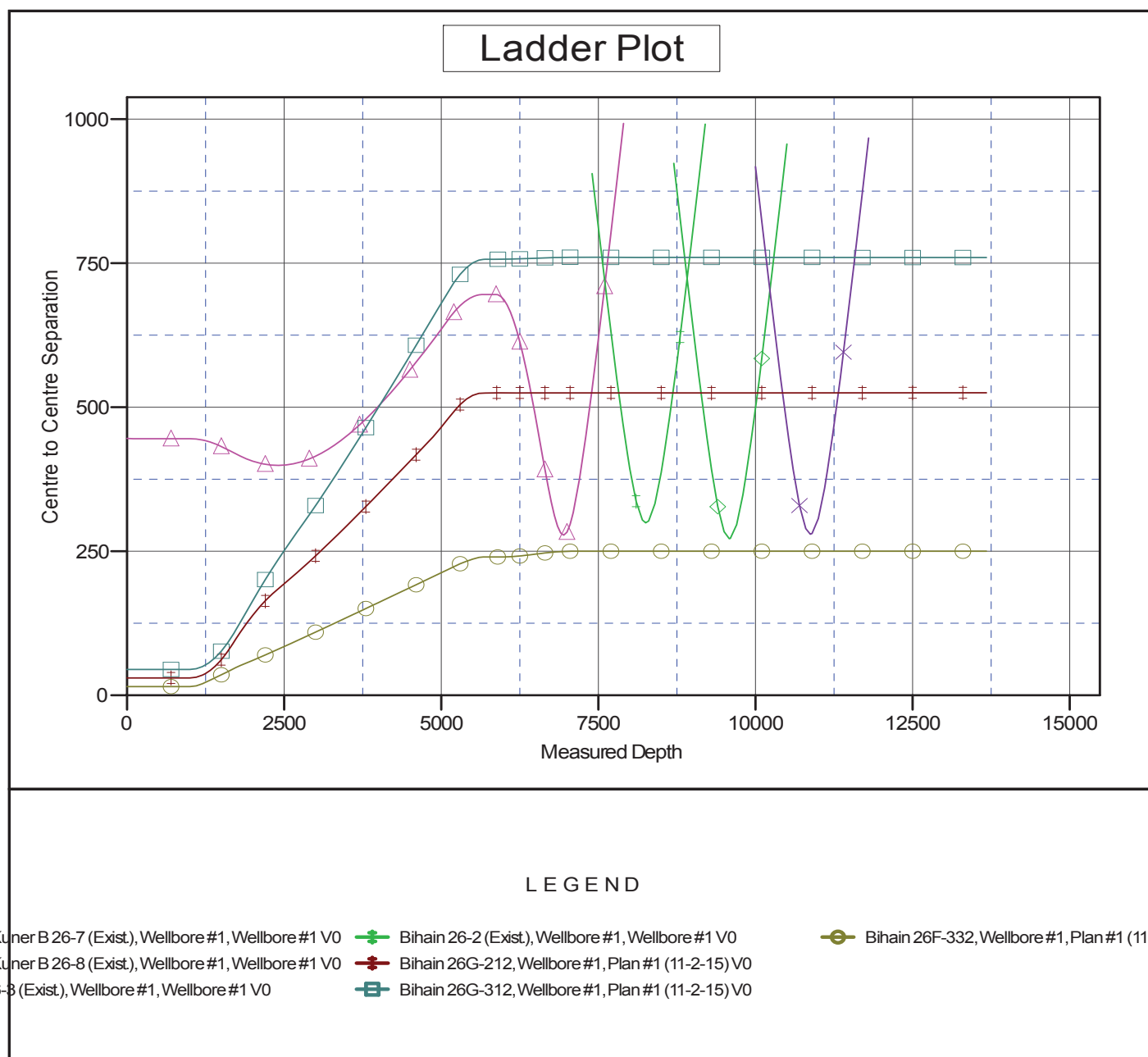
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: Bihain 26F-232

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 26F-232
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4617.0ft (RKB - 13')
Reference Site:	Bihain 5N64W26GK Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4617.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bihain 26F-232	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-2-15)	Offset TVD Reference:	Offset Datum

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

Offset Depths are relative to Offset Datum

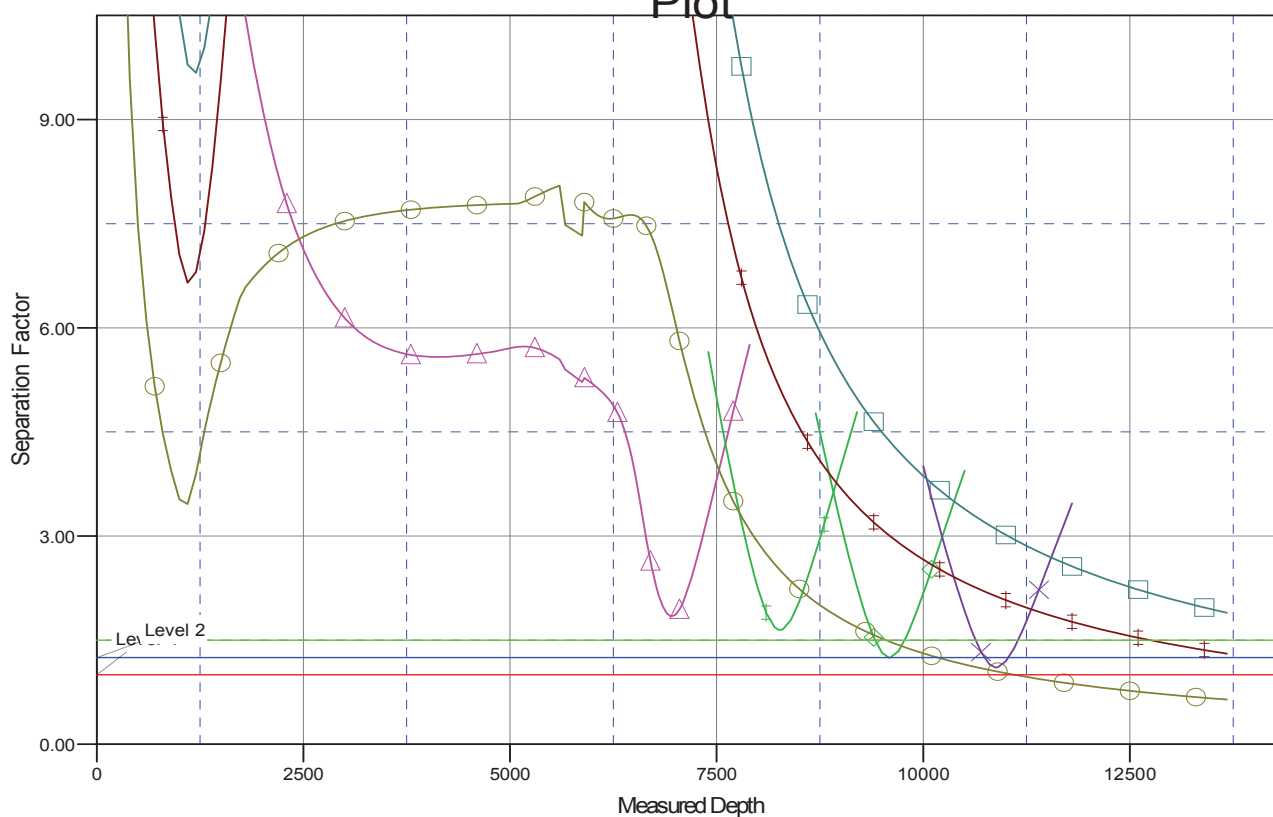
Central Meridian is -105.500000

Coordinates are relative to: Bihain 26F-232

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.63°

Separation Factor Plot



L E G E N D

KunerB 26-7 (Exist), Wellbore #1, Wellbore #1 V0	Bihain 26-2 (Exist), Wellbore #1, Wellbore #1 V0	Bihain 26F-332, Wellbore #1, Plan #1 (11-2-15)
KunerB 26-8 (Exist), Wellbore #1, Wellbore #1 V0	Bihain 26G-212, Wellbore #1, Plan #1 (11-2-15) V0	
6-3 (Exist), Wellbore #1, Wellbore #1 V0	Bihain 26G-312, Wellbore #1, Plan #1 (11-2-15) V0	