PETROLEUM DEVELOPMENT CORP DJ Basin

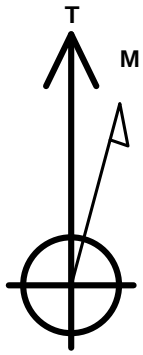
Well Name: **Connie 26F-402**
Surface Location: Connie 5N64W26EF Pad Sec.26-T5N-R64W
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone
Ground Elevation: 4598.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1381364.41	3271490.55	40.376152	-104.525528	

RKB - 23' WELL @ 4621.0ft (RKB - 23')

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 539'FNL & 236'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 1470'FNL & 500'FEL, Sec.25	6691.0	-951.8	9778.8	Point



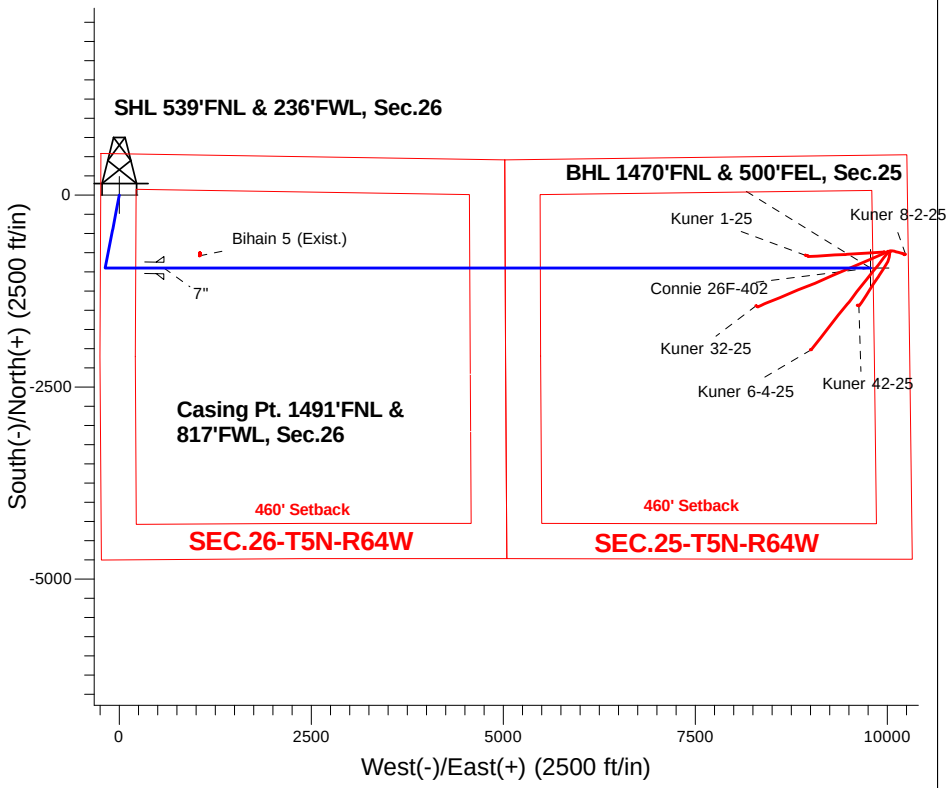
Azimuths to True North
Magnetic North: 8.14°

Magnetic Field
Strength: 52683.2snT
Dip Angle: 66.92°
Date: 11/3/2015
Model: IGRF2010

Connie 5N64W26EF Pad Sec.26-T5N-R64W
Connie 26F-402
Plan #1 Extension (3-4-16)
15:19, March 10 2016

ANNOTATIONS

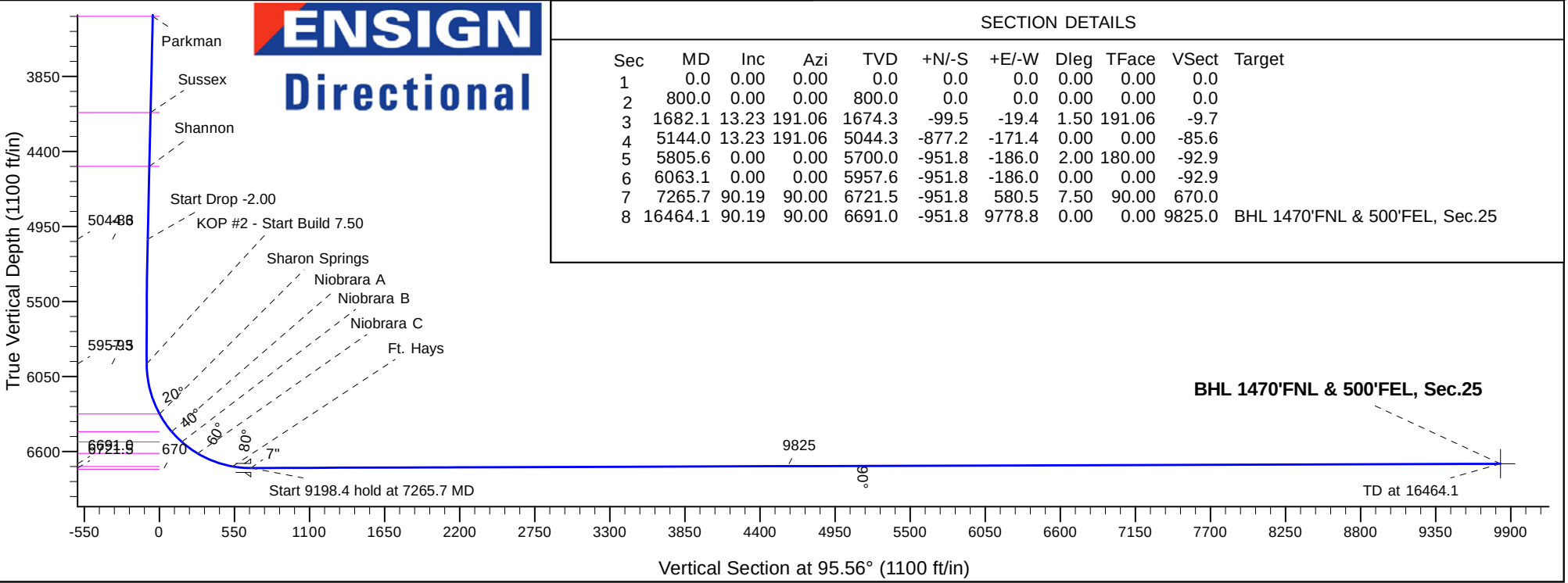
TVD	MD	Annotation
800.0	800.0	KOP - Start Build 1.50
5044.3	5144.0	Start Drop -2.00
5957.6	6063.1	KOP #2 - Start Build 7.50
6721.5	7265.7	Start 9198.4 hold at 7265.7 MD
6691.0	16464.1	TD at 16464.1



ENSIGN Directional

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1682.1	13.23	191.06	1674.3	-99.5	-19.4	1.50	191.06	-9.7	
4	5144.0	13.23	191.06	5044.3	-877.2	-171.4	0.00	0.00	-85.6	
5	5805.6	0.00	0.00	5700.0	-951.8	-186.0	2.00	180.00	-92.9	
6	6063.1	0.00	0.00	5957.6	-951.8	-186.0	0.00	0.00	-92.9	
7	7265.7	90.19	90.00	6721.5	-951.8	580.5	7.50	90.00	670.0	
8	16464.1	90.19	90.00	6691.0	-951.8	9778.8	0.00	0.00	9825.0	BHL 1470'FNL & 500'FEL, Sec.25



ENSIGN Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W
Connie 5N64W26EF Pad Sec.26-T5N-R64W
Connie 26F-402

Wellbore #1

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

Standard Planning Report

10 March, 2016

PDC ENERGY
Growing E&P Value

Database:	US_EDM	**Local Co-ordinate Reference:**	Well Connie 26F-402
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**North Reference:**	True
Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extension (3-4-16)		

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

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

Site Connie 5N64W26EF Pad Sec.26-T5N-R64W

Site Position:		**Northing:**	1,381,364.42 usft	**Latitude:**	40.376152
From:	Lat/Long	**Easting:**	3,271,490.55 usft	**Longitude:**	-104.525528
Position Uncertainty:	0.0 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.63 °

Well Connie 26F-402

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,381,364.41 usft	**Latitude:**	40.376152
	+E/-W	0.0 ft	**Easting:**	3,271,490.55 usft	**Longitude:**	-104.525528
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	0.0 ft	**Ground Level:**	4,598.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/3/2015	8.14	66.92	52,683

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

Audit Notes:

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

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	95.56

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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,682.1	13.23	191.06	1,674.3	-99.5	-19.4	1.50	1.50	0.00	191.06	
5,144.0	13.23	191.06	5,044.3	-877.2	-171.4	0.00	0.00	0.00	0.00	
5,805.6	0.00	0.00	5,700.0	-951.8	-186.0	2.00	-2.00	0.00	180.00	
6,063.1	0.00	0.00	5,957.6	-951.8	-186.0	0.00	0.00	0.00	0.00	
7,265.7	90.19	90.00	6,721.5	-951.8	580.5	7.50	7.50	0.00	90.00	
16,464.1	90.19	90.00	6,691.0	-951.8	9,778.8	0.00	0.00	0.00	0.00	BHL 1470'FNL & 500'

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Project:	SEC.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**North Reference:**	True
Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extension (3-4-16)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 539'FNL & 236'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
KOP - Start Build 1.50									
900.0	1.50	191.06	900.0	-1.3	-0.3	-0.1	1.50	1.50	0.00
1,000.0	3.00	191.06	999.9	-5.1	-1.0	-0.5	1.50	1.50	0.00
1,100.0	4.50	191.06	1,099.7	-11.6	-2.3	-1.1	1.50	1.50	0.00
1,200.0	6.00	191.06	1,199.3	-20.5	-4.0	-2.0	1.50	1.50	0.00
1,300.0	7.50	191.06	1,298.6	-32.1	-6.3	-3.1	1.50	1.50	0.00
1,400.0	9.00	191.06	1,397.5	-46.2	-9.0	-4.5	1.50	1.50	0.00
1,500.0	10.50	191.06	1,496.1	-62.8	-12.3	-6.1	1.50	1.50	0.00
1,600.0	12.00	191.06	1,594.2	-81.9	-16.0	-8.0	1.50	1.50	0.00
1,682.1	13.23	191.06	1,674.3	-99.5	-19.4	-9.7	1.50	1.50	0.00
1,700.0	13.23	191.06	1,691.7	-103.5	-20.2	-10.1	0.00	0.00	0.00
1,800.0	13.23	191.06	1,789.1	-126.0	-24.6	-12.3	0.00	0.00	0.00
1,900.0	13.23	191.06	1,886.4	-148.5	-29.0	-14.5	0.00	0.00	0.00
2,000.0	13.23	191.06	1,983.7	-170.9	-33.4	-16.7	0.00	0.00	0.00
2,100.0	13.23	191.06	2,081.1	-193.4	-37.8	-18.9	0.00	0.00	0.00
2,200.0	13.23	191.06	2,178.4	-215.9	-42.2	-21.1	0.00	0.00	0.00
2,300.0	13.23	191.06	2,275.8	-238.3	-46.6	-23.3	0.00	0.00	0.00
2,400.0	13.23	191.06	2,373.1	-260.8	-51.0	-25.5	0.00	0.00	0.00
2,500.0	13.23	191.06	2,470.5	-283.2	-55.4	-27.7	0.00	0.00	0.00
2,600.0	13.23	191.06	2,567.8	-305.7	-59.7	-29.8	0.00	0.00	0.00
2,700.0	13.23	191.06	2,665.2	-328.2	-64.1	-32.0	0.00	0.00	0.00
2,800.0	13.23	191.06	2,762.5	-350.6	-68.5	-34.2	0.00	0.00	0.00
2,900.0	13.23	191.06	2,859.9	-373.1	-72.9	-36.4	0.00	0.00	0.00
3,000.0	13.23	191.06	2,957.2	-395.6	-77.3	-38.6	0.00	0.00	0.00
3,100.0	13.23	191.06	3,054.5	-418.0	-81.7	-40.8	0.00	0.00	0.00
3,200.0	13.23	191.06	3,151.9	-440.5	-86.1	-43.0	0.00	0.00	0.00
3,300.0	13.23	191.06	3,249.2	-463.0	-90.5	-45.2	0.00	0.00	0.00
3,400.0	13.23	191.06	3,346.6	-485.4	-94.9	-47.4	0.00	0.00	0.00
3,465.2	13.23	191.06	3,410.0	-500.1	-97.7	-48.8	0.00	0.00	0.00
Parkman									
3,500.0	13.23	191.06	3,443.9	-507.9	-99.2	-49.6	0.00	0.00	0.00
3,600.0	13.23	191.06	3,541.3	-530.3	-103.6	-51.8	0.00	0.00	0.00
3,700.0	13.23	191.06	3,638.6	-552.8	-108.0	-54.0	0.00	0.00	0.00
3,800.0	13.23	191.06	3,736.0	-575.3	-112.4	-56.2	0.00	0.00	0.00
3,900.0	13.23	191.06	3,833.3	-597.7	-116.8	-58.4	0.00	0.00	0.00
4,000.0	13.23	191.06	3,930.6	-620.2	-121.2	-60.5	0.00	0.00	0.00
4,100.0	13.23	191.06	4,028.0	-642.7	-125.6	-62.7	0.00	0.00	0.00
4,189.4	13.23	191.06	4,115.0	-662.7	-129.5	-64.7	0.00	0.00	0.00
Sussex									
4,200.0	13.23	191.06	4,125.3	-665.1	-130.0	-64.9	0.00	0.00	0.00
4,300.0	13.23	191.06	4,222.7	-687.6	-134.4	-67.1	0.00	0.00	0.00
4,400.0	13.23	191.06	4,320.0	-710.0	-138.8	-69.3	0.00	0.00	0.00

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Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**North Reference:**	True
Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extension (3-4-16)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,500.0	13.23	191.06	4,417.4	-732.5	-143.1	-71.5	0.00	0.00	0.00
4,595.1	13.23	191.06	4,510.0	-753.9	-147.3	-73.6	0.00	0.00	0.00
Shannon									
4,600.0	13.23	191.06	4,514.7	-755.0	-147.5	-73.7	0.00	0.00	0.00
4,700.0	13.23	191.06	4,612.1	-777.4	-151.9	-75.9	0.00	0.00	0.00
4,800.0	13.23	191.06	4,709.4	-799.9	-156.3	-78.1	0.00	0.00	0.00
4,900.0	13.23	191.06	4,806.8	-822.4	-160.7	-80.3	0.00	0.00	0.00
5,000.0	13.23	191.06	4,904.1	-844.8	-165.1	-82.5	0.00	0.00	0.00
5,100.0	13.23	191.06	5,001.4	-867.3	-169.5	-84.7	0.00	0.00	0.00
5,144.0	13.23	191.06	5,044.3	-877.2	-171.4	-85.6	0.00	0.00	0.00
Start Drop -2.00									
5,200.0	12.11	191.06	5,098.9	-889.2	-173.8	-86.8	2.00	-2.00	0.00
5,300.0	10.11	191.06	5,197.0	-908.1	-177.5	-88.7	2.00	-2.00	0.00
5,400.0	8.11	191.06	5,295.8	-923.7	-180.5	-90.2	2.00	-2.00	0.00
5,500.0	6.11	191.06	5,395.0	-935.8	-182.9	-91.4	2.00	-2.00	0.00
5,600.0	4.11	191.06	5,494.6	-944.6	-184.6	-92.2	2.00	-2.00	0.00
5,700.0	2.11	191.06	5,594.4	-949.9	-185.6	-92.7	2.00	-2.00	0.00
5,800.0	0.11	191.06	5,694.4	-951.8	-186.0	-92.9	2.00	-2.00	0.00
5,805.6	0.00	0.00	5,700.0	-951.8	-186.0	-92.9	2.00	-2.00	0.00
5,900.0	0.00	0.00	5,794.4	-951.8	-186.0	-92.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,894.4	-951.8	-186.0	-92.9	0.00	0.00	0.00
6,063.1	0.00	0.00	5,957.5	-951.8	-186.0	-92.9	0.00	0.00	0.00
KOP #2 - Start Build 7.50									
6,100.0	2.76	90.00	5,994.4	-951.8	-185.1	-92.0	7.49	7.49	0.00
6,200.0	10.26	90.00	6,093.7	-951.8	-173.8	-80.7	7.50	7.50	0.00
6,300.0	17.76	90.00	6,190.6	-951.8	-149.6	-56.7	7.50	7.50	0.00
6,400.0	25.26	90.00	6,283.6	-951.8	-112.9	-20.2	7.50	7.50	0.00
6,446.5	28.75	90.00	6,325.0	-951.8	-91.8	0.8	7.50	7.50	0.00
Sharon Springs									
6,500.0	32.76	90.00	6,371.0	-951.8	-64.5	28.1	7.50	7.50	0.00
6,600.0	40.26	90.00	6,451.3	-951.8	-5.0	87.2	7.50	7.50	0.00
6,604.9	40.63	90.00	6,455.0	-951.8	-1.9	90.4	7.50	7.50	0.00
Niobrara A									
6,700.0	47.76	90.00	6,523.2	-951.8	64.4	156.3	7.50	7.50	0.00
6,710.2	48.53	90.00	6,530.0	-951.8	72.1	163.9	7.50	7.50	0.00
Niobrara B									
6,800.0	55.26	90.00	6,585.4	-951.8	142.7	234.2	7.50	7.50	0.00
6,854.9	59.38	90.00	6,615.0	-951.8	188.9	280.2	7.50	7.50	0.00
Niobrara C									
6,900.0	62.76	90.00	6,636.8	-951.8	228.3	319.5	7.50	7.50	0.00
7,000.0	70.26	90.00	6,676.6	-951.8	320.0	410.7	7.50	7.50	0.00
7,100.0	77.76	90.00	6,704.2	-951.8	416.0	506.3	7.50	7.50	0.00
7,130.4	80.04	90.00	6,710.0	-951.8	445.8	536.0	7.50	7.50	0.00
Ft. Hays									
7,200.0	85.26	90.00	6,718.9	-951.8	514.9	604.7	7.50	7.50	0.00
7,265.7	90.19	90.00	6,721.5	-951.8	580.5	670.0	7.50	7.50	0.00
Start 9198.4 hold at 7265.7 MD - 7"									
7,300.0	90.19	90.00	6,721.4	-951.8	614.8	704.1	0.00	0.00	0.00
7,400.0	90.19	90.00	6,721.1	-951.8	714.8	803.6	0.00	0.00	0.00
7,500.0	90.19	90.00	6,720.7	-951.8	814.8	903.2	0.00	0.00	0.00
7,600.0	90.19	90.00	6,720.4	-951.8	914.8	1,002.7	0.00	0.00	0.00
7,700.0	90.19	90.00	6,720.1	-951.8	1,014.8	1,102.2	0.00	0.00	0.00

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Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extension (3-4-16)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,800.0	90.19	90.00	6,719.7	-951.8	1,114.8	1,201.8	0.00	0.00	0.00
7,900.0	90.19	90.00	6,719.4	-951.8	1,214.8	1,301.3	0.00	0.00	0.00
8,000.0	90.19	90.00	6,719.1	-951.8	1,314.8	1,400.8	0.00	0.00	0.00
8,100.0	90.19	90.00	6,718.7	-951.8	1,414.8	1,500.3	0.00	0.00	0.00
8,200.0	90.19	90.00	6,718.4	-951.8	1,514.8	1,599.9	0.00	0.00	0.00
8,300.0	90.19	90.00	6,718.1	-951.8	1,614.8	1,699.4	0.00	0.00	0.00
8,400.0	90.19	90.00	6,717.7	-951.8	1,714.8	1,798.9	0.00	0.00	0.00
8,500.0	90.19	90.00	6,717.4	-951.8	1,814.8	1,898.5	0.00	0.00	0.00
8,600.0	90.19	90.00	6,717.1	-951.8	1,914.8	1,998.0	0.00	0.00	0.00
8,700.0	90.19	90.00	6,716.7	-951.8	2,014.8	2,097.5	0.00	0.00	0.00
8,800.0	90.19	90.00	6,716.4	-951.8	2,114.8	2,197.1	0.00	0.00	0.00
8,900.0	90.19	90.00	6,716.1	-951.8	2,214.8	2,296.6	0.00	0.00	0.00
9,000.0	90.19	90.00	6,715.8	-951.8	2,314.8	2,396.1	0.00	0.00	0.00
9,100.0	90.19	90.00	6,715.4	-951.8	2,414.8	2,495.6	0.00	0.00	0.00
9,200.0	90.19	90.00	6,715.1	-951.8	2,514.8	2,595.2	0.00	0.00	0.00
9,300.0	90.19	90.00	6,714.8	-951.8	2,614.8	2,694.7	0.00	0.00	0.00
9,400.0	90.19	90.00	6,714.4	-951.8	2,714.8	2,794.2	0.00	0.00	0.00
9,500.0	90.19	90.00	6,714.1	-951.8	2,814.8	2,893.8	0.00	0.00	0.00
9,600.0	90.19	90.00	6,713.8	-951.8	2,914.8	2,993.3	0.00	0.00	0.00
9,700.0	90.19	90.00	6,713.4	-951.8	3,014.8	3,092.8	0.00	0.00	0.00
9,800.0	90.19	90.00	6,713.1	-951.8	3,114.8	3,192.3	0.00	0.00	0.00
9,900.0	90.19	90.00	6,712.8	-951.8	3,214.8	3,291.9	0.00	0.00	0.00
10,000.0	90.19	90.00	6,712.4	-951.8	3,314.8	3,391.4	0.00	0.00	0.00
10,100.0	90.19	90.00	6,712.1	-951.8	3,414.8	3,490.9	0.00	0.00	0.00
10,200.0	90.19	90.00	6,711.8	-951.8	3,514.8	3,590.5	0.00	0.00	0.00
10,300.0	90.19	90.00	6,711.4	-951.8	3,614.8	3,690.0	0.00	0.00	0.00
10,400.0	90.19	90.00	6,711.1	-951.8	3,714.8	3,789.5	0.00	0.00	0.00
10,500.0	90.19	90.00	6,710.8	-951.8	3,814.8	3,889.0	0.00	0.00	0.00
10,600.0	90.19	90.00	6,710.4	-951.8	3,914.8	3,988.6	0.00	0.00	0.00
10,700.0	90.19	90.00	6,710.1	-951.8	4,014.8	4,088.1	0.00	0.00	0.00
10,800.0	90.19	90.00	6,709.8	-951.8	4,114.8	4,187.6	0.00	0.00	0.00
10,900.0	90.19	90.00	6,709.5	-951.8	4,214.8	4,287.2	0.00	0.00	0.00
11,000.0	90.19	90.00	6,709.1	-951.8	4,314.8	4,386.7	0.00	0.00	0.00
11,100.0	90.19	90.00	6,708.8	-951.8	4,414.8	4,486.2	0.00	0.00	0.00
11,200.0	90.19	90.00	6,708.5	-951.8	4,514.8	4,585.7	0.00	0.00	0.00
11,300.0	90.19	90.00	6,708.1	-951.8	4,614.8	4,685.3	0.00	0.00	0.00
11,400.0	90.19	90.00	6,707.8	-951.8	4,714.8	4,784.8	0.00	0.00	0.00
11,500.0	90.19	90.00	6,707.5	-951.8	4,814.8	4,884.3	0.00	0.00	0.00
11,600.0	90.19	90.00	6,707.1	-951.8	4,914.8	4,983.9	0.00	0.00	0.00
11,700.0	90.19	90.00	6,706.8	-951.8	5,014.8	5,083.4	0.00	0.00	0.00
11,800.0	90.19	90.00	6,706.5	-951.8	5,114.8	5,182.9	0.00	0.00	0.00
11,900.0	90.19	90.00	6,706.1	-951.8	5,214.8	5,282.5	0.00	0.00	0.00
12,000.0	90.19	90.00	6,705.8	-951.8	5,314.8	5,382.0	0.00	0.00	0.00
12,100.0	90.19	90.00	6,705.5	-951.8	5,414.8	5,481.5	0.00	0.00	0.00
12,200.0	90.19	90.00	6,705.1	-951.8	5,514.8	5,581.0	0.00	0.00	0.00
12,300.0	90.19	90.00	6,704.8	-951.8	5,614.8	5,680.6	0.00	0.00	0.00
12,400.0	90.19	90.00	6,704.5	-951.8	5,714.8	5,780.1	0.00	0.00	0.00
12,500.0	90.19	90.00	6,704.1	-951.8	5,814.8	5,879.6	0.00	0.00	0.00
12,600.0	90.19	90.00	6,703.8	-951.8	5,914.8	5,979.2	0.00	0.00	0.00
12,700.0	90.19	90.00	6,703.5	-951.8	6,014.8	6,078.7	0.00	0.00	0.00
12,800.0	90.19	90.00	6,703.2	-951.8	6,114.8	6,178.2	0.00	0.00	0.00
12,900.0	90.19	90.00	6,702.8	-951.8	6,214.8	6,277.7	0.00	0.00	0.00
13,000.0	90.19	90.00	6,702.5	-951.8	6,314.8	6,377.3	0.00	0.00	0.00

Database:	US_EDM	**Local Co-ordinate Reference:**	Well Connie 26F-402
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**North Reference:**	True
Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extension (3-4-16)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,100.0	90.19	90.00	6,702.2	-951.8	6,414.8	6,476.8	0.00	0.00	0.00
13,200.0	90.19	90.00	6,701.8	-951.8	6,514.8	6,576.3	0.00	0.00	0.00
13,300.0	90.19	90.00	6,701.5	-951.8	6,614.8	6,675.9	0.00	0.00	0.00
13,400.0	90.19	90.00	6,701.2	-951.8	6,714.8	6,775.4	0.00	0.00	0.00
13,500.0	90.19	90.00	6,700.8	-951.8	6,814.8	6,874.9	0.00	0.00	0.00
13,600.0	90.19	90.00	6,700.5	-951.8	6,914.8	6,974.4	0.00	0.00	0.00
13,700.0	90.19	90.00	6,700.2	-951.8	7,014.8	7,074.0	0.00	0.00	0.00
13,800.0	90.19	90.00	6,699.8	-951.8	7,114.8	7,173.5	0.00	0.00	0.00
13,855.6	90.19	90.00	6,699.7	-951.8	7,170.3	7,228.8	0.00	0.00	0.00
BHL 1433'FNL & 2140'FWL, Sec.25									
13,900.0	90.19	90.00	6,699.5	-951.8	7,214.8	7,273.0	0.00	0.00	0.00
14,000.0	90.19	90.00	6,699.2	-951.8	7,314.8	7,372.6	0.00	0.00	0.00
14,100.0	90.19	90.00	6,698.8	-951.8	7,414.8	7,472.1	0.00	0.00	0.00
14,200.0	90.19	90.00	6,698.5	-951.8	7,514.8	7,571.6	0.00	0.00	0.00
14,300.0	90.19	90.00	6,698.2	-951.8	7,614.8	7,671.2	0.00	0.00	0.00
14,400.0	90.19	90.00	6,697.8	-951.8	7,714.8	7,770.7	0.00	0.00	0.00
14,500.0	90.19	90.00	6,697.5	-951.8	7,814.8	7,870.2	0.00	0.00	0.00
14,600.0	90.19	90.00	6,697.2	-951.8	7,914.8	7,969.7	0.00	0.00	0.00
14,700.0	90.19	90.00	6,696.8	-951.8	8,014.8	8,069.3	0.00	0.00	0.00
14,800.0	90.19	90.00	6,696.5	-951.8	8,114.8	8,168.8	0.00	0.00	0.00
14,900.0	90.19	90.00	6,696.2	-951.8	8,214.8	8,268.3	0.00	0.00	0.00
15,000.0	90.19	90.00	6,695.9	-951.8	8,314.8	8,367.9	0.00	0.00	0.00
15,100.0	90.19	90.00	6,695.5	-951.8	8,414.8	8,467.4	0.00	0.00	0.00
15,200.0	90.19	90.00	6,695.2	-951.8	8,514.8	8,566.9	0.00	0.00	0.00
15,300.0	90.19	90.00	6,694.9	-951.8	8,614.8	8,666.4	0.00	0.00	0.00
15,400.0	90.19	90.00	6,694.5	-951.8	8,714.8	8,766.0	0.00	0.00	0.00
15,500.0	90.19	90.00	6,694.2	-951.8	8,814.8	8,865.5	0.00	0.00	0.00
15,600.0	90.19	90.00	6,693.9	-951.8	8,914.8	8,965.0	0.00	0.00	0.00
15,700.0	90.19	90.00	6,693.5	-951.8	9,014.8	9,064.6	0.00	0.00	0.00
15,800.0	90.19	90.00	6,693.2	-951.8	9,114.8	9,164.1	0.00	0.00	0.00
15,900.0	90.19	90.00	6,692.9	-951.8	9,214.7	9,263.6	0.00	0.00	0.00
16,000.0	90.19	90.00	6,692.5	-951.8	9,314.7	9,363.1	0.00	0.00	0.00
16,100.0	90.19	90.00	6,692.2	-951.8	9,414.7	9,462.7	0.00	0.00	0.00
16,200.0	90.19	90.00	6,691.9	-951.8	9,514.7	9,562.2	0.00	0.00	0.00
16,300.0	90.19	90.00	6,691.5	-951.8	9,614.7	9,661.7	0.00	0.00	0.00
16,400.0	90.19	90.00	6,691.2	-951.8	9,714.7	9,761.3	0.00	0.00	0.00
16,464.1	90.19	90.00	6,691.0	-951.8	9,778.8	9,825.0	0.00	0.00	0.00
TD at 16464.1 - BHL 1470'FNL & 500'FEL, Sec.25									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL 539'FNL & 236'FWl - plan hits target center - Point	0.00	0.63	1.0	0.0	0.0	1,381,364.42	3,271,490.55	40.376152	-104.525528
BHL 1470'FNL & 500'FE - plan hits target center - Point	0.00	0.00	6,691.0	-951.8	9,778.8	1,380,520.14	3,281,278.84	40.373534	-104.490432

Database:	US_EDM	**Local Co-ordinate Reference:**	Well Connie 26F-402
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**North Reference:**	True
Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extension (3-4-16)		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,265.7	6,721.5	7"	7	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,465.2	3,410.0	Parkman		0.00	
4,189.4	4,115.0	Sussex		0.00	
4,595.1	4,510.0	Shannon		0.00	
6,446.5	6,325.0	Sharon Springs		0.00	
6,604.9	6,455.0	Niobrara A		0.00	
6,710.2	6,530.0	Niobrara B		0.00	
6,854.9	6,615.0	Niobrara C		0.00	
7,130.4	6,710.0	Ft. Hays		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
800.0	800.0	0.0	0.0	KOP - Start Build 1.50
5,144.0	5,044.3	-99.5	-19.4	Start Drop -2.00
6,063.1	5,957.6	-877.2	-171.4	KOP #2 - Start Build 7.50
7,265.7	6,721.5	-951.8	-186.0	Start 9198.4 hold at 7265.7 MD
16,464.1	6,691.0	-951.8	-186.0	TD at 16464.1

ENSIGN Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W
Connie 5N64W26EF Pad Sec.26-T5N-R64W
Connie 26F-402

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

Anticollision Report

10 March, 2016

PDC ENERGY
Growing E&P Value

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

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

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

Survey Tool Program **Date** 3/10/2016

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	16,464.1	Plan #1 Extension (3-4-16) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Bihain 5N64W26GK Pad Sec.26-T5N-R64W						
Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16	6,015.6	5,985.8	209.9	170.2	5.293	CC
Bihain 26F-232 - Wellbore #1 - Plan #1 Extention (3-3-16	16,464.1	16,281.2	270.1	-166.8	0.618	Level 1, ES, SF
Connie 5N64W26EF Pad Sec.26-T5N-R64W						
Connie 26E-332 - Wellbore #1 - Plan #1 Extension (3-4-1	800.0	799.0	45.0	41.6	13.357	CC, ES
Connie 26E-332 - Wellbore #1 - Plan #1 Extension (3-4-1	16,464.1	16,277.5	977.5	430.4	1.787	SF
Connie 26E-402 - Wellbore #1 - Plan #2 (2-26-16)	800.0	789.0	60.1	56.6	17.318	CC, ES
Connie 26E-402 - Wellbore #1 - Plan #2 (2-26-16)	1,100.0	1,088.7	71.0	66.3	15.083	SF
Connie 26F-212 - Wellbore #1 - Plan #1 Extension (3-4-1	800.0	799.0	29.9	26.5	8.875	CC, ES
Connie 26F-212 - Wellbore #1 - Plan #1 Extension (3-4-1	16,464.1	16,222.6	626.2	97.0	1.183	Level 2, SF
Connie 26F-302 - Wellbore #1 - Plan #1 Extension (3-4-1	800.0	800.0	15.1	11.7	4.479	CC
Connie 26F-302 - Wellbore #1 - Plan #1 Extension (3-4-1	16,464.1	16,325.7	332.7	-183.0	0.645	Level 1, ES, SF
Existing Wells Pad Sec.26-T5N-R64W						
Bihain 5 (Exist.) - Wellbore #1 - Wellbore #1	7,726.2	6,695.8	158.4	112.4	3.439	CC, ES, SF
Kuner 8-2-25 Pad Sec.25-T5N-R64W						
Kuner 1-25 - Wellbore #1 - Wellbore #1	15,621.7	6,793.3	166.1	-109.4	0.603	Level 1, CC, ES, SF
Kuner 32-25 - Wellbore #1 - Wellbore #1	14,979.0	7,031.8	495.3	225.6	1.837	CC
Kuner 32-25 - Wellbore #1 - Wellbore #1	15,000.0	7,031.0	495.7	225.5	1.834	ES, SF
Kuner 42-25 - Wellbore #1 - Wellbore #1	16,297.8	6,756.6	485.1	197.6	1.687	CC
Kuner 42-25 - Wellbore #1 - Wellbore #1	16,300.0	6,756.7	485.1	197.5	1.687	ES, SF
Kuner 6-4-25 - Wellbore #1 - Wellbore #1						Out of range
Kuner 8-2-25 - Wellbore #1 - Wellbore #1	16,464.1	6,674.7	483.0	193.2	1.667	CC, ES, SF

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

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
3,400.0	3,346.6	3,558.9	3,521.3	11.8	11.0	-17.01	-1,458.9	-12.1	991.4	974.6	16.87	58.786	
3,500.0	3,443.9	3,651.3	3,612.0	12.3	11.4	-16.90	-1,444.0	-21.3	953.2	935.8	17.41	54.751	
3,600.0	3,541.3	3,743.7	3,702.7	12.8	11.8	-16.79	-1,429.0	-30.4	914.9	897.0	17.96	50.957	
3,700.0	3,638.6	3,836.0	3,793.4	13.3	12.2	-16.67	-1,414.1	-39.6	876.7	858.2	18.50	47.386	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
3,800.0	3,736.0	3,928.4	3,884.1	13.8	12.5	-16.54	-1,399.1	-48.7	838.5	819.4	19.05	44.017	
3,900.0	3,833.3	4,020.8	3,974.8	14.3	12.9	-16.39	-1,384.2	-57.9	800.2	780.6	19.60	40.836	
4,000.0	3,930.6	4,113.2	4,065.5	14.8	13.3	-16.23	-1,369.3	-67.1	762.0	741.8	20.14	37.826	
4,100.0	4,028.0	4,205.6	4,156.2	15.2	13.7	-16.05	-1,354.3	-76.2	723.8	703.1	20.69	34.975	
4,200.0	4,125.3	4,297.9	4,246.9	15.7	14.1	-15.85	-1,339.4	-85.4	685.5	664.3	21.24	32.270	
4,300.0	4,222.7	4,390.3	4,337.6	16.2	14.5	-15.63	-1,324.5	-94.6	647.3	625.5	21.79	29.702	
4,400.0	4,320.0	4,482.7	4,428.3	16.7	14.8	-15.39	-1,309.5	-103.7	609.1	586.8	22.35	27.259	
4,500.0	4,417.4	4,575.1	4,519.0	17.2	15.2	-15.10	-1,294.6	-112.9	570.9	548.0	22.90	24.934	
4,600.0	4,514.7	4,667.5	4,609.7	17.7	15.6	-14.78	-1,279.6	-122.0	532.8	509.3	23.45	22.718	
4,700.0	4,612.1	4,759.9	4,700.4	18.2	16.0	-14.41	-1,264.7	-131.2	494.6	470.6	24.01	20.603	
4,800.0	4,709.4	4,852.2	4,791.1	18.7	16.4	-13.98	-1,249.8	-140.4	456.5	431.9	24.56	18.584	
4,900.0	4,806.8	4,944.6	4,881.8	19.2	16.8	-13.47	-1,234.8	-149.5	418.3	393.2	25.12	16.653	
5,000.0	4,904.1	5,037.0	4,972.5	19.6	17.1	-12.85	-1,219.9	-158.7	380.3	354.6	25.68	14.805	
5,100.0	5,001.4	5,128.7	5,062.6	20.1	17.5	-12.11	-1,205.1	-167.8	342.2	316.0	26.25	13.038	
5,144.0	5,044.3	5,165.8	5,099.1	20.3	17.7	-11.79	-1,199.3	-171.3	325.8	299.3	26.47	12.307	
5,200.0	5,098.9	5,213.7	5,146.2	20.6	17.8	-11.30	-1,192.5	-175.5	306.1	279.3	26.84	11.405	
5,300.0	5,197.0	5,300.0	5,231.7	20.9	18.1	-10.47	-1,182.0	-181.9	275.4	247.9	27.41	10.044	
5,400.0	5,295.8	5,391.1	5,322.2	21.2	18.3	-9.70	-1,173.2	-187.3	250.5	222.5	27.95	8.962	
5,500.0	5,395.0	5,482.8	5,413.6	21.4	18.5	-9.10	-1,166.9	-191.2	231.5	203.1	28.42	8.146	
5,600.0	5,494.6	5,575.8	5,506.5	21.6	18.6	-8.74	-1,163.0	-193.6	218.7	189.9	28.83	7.585	
5,700.0	5,594.4	5,669.8	5,600.4	21.7	18.7	-8.70	-1,161.7	-194.4	212.0	182.8	29.17	7.267	
5,805.6	5,700.0	5,775.3	5,706.0	21.9	18.9	-177.72	-1,161.7	-194.4	210.1	171.0	39.03	5.381	
5,900.0	5,794.4	5,869.8	5,800.4	22.0	19.0	-177.72	-1,161.7	-194.4	210.1	170.8	39.29	5.347	
6,000.0	5,894.4	5,970.3	5,900.7	22.1	19.1	-179.42	-1,161.7	-188.1	209.9	170.3	39.60	5.300	
6,015.6	5,910.0	5,985.8	5,916.0	22.1	19.1	180.00	-1,161.7	-186.0	209.9	170.2	39.66	5.293	CC
6,063.1	5,957.6	6,032.3	5,961.8	22.2	19.2	177.74	-1,161.7	-177.7	210.1	170.2	39.82	5.275	
6,100.0	5,994.4	6,067.8	5,996.3	22.2	19.2	85.71	-1,161.7	-169.6	210.5	180.3	30.23	6.964	
6,150.0	6,044.2	6,115.4	6,042.0	22.2	19.1	83.01	-1,161.7	-156.1	211.5	181.2	30.34	6.973	
6,200.0	6,093.7	6,162.5	6,086.2	22.3	19.1	80.37	-1,161.7	-140.0	213.0	182.5	30.46	6.993	
6,250.0	6,142.6	6,209.0	6,128.9	22.3	19.1	77.82	-1,161.7	-121.5	214.9	184.3	30.58	7.028	
6,300.0	6,190.6	6,255.0	6,169.9	22.4	19.1	75.38	-1,161.7	-100.6	217.2	186.5	30.68	7.078	
6,350.0	6,237.7	6,300.0	6,208.7	22.4	19.0	73.07	-1,161.7	-77.9	219.8	189.0	30.75	7.146	
6,400.0	6,283.6	6,345.6	6,246.6	22.4	19.0	70.83	-1,161.7	-52.6	222.6	191.8	30.79	7.230	
6,450.0	6,328.1	6,390.2	6,282.2	22.4	18.9	68.75	-1,161.7	-25.6	225.6	194.9	30.78	7.330	
6,500.0	6,371.0	6,434.5	6,315.8	22.4	18.9	66.81	-1,161.7	3.1	228.8	198.1	30.73	7.446	
6,550.0	6,412.1	6,478.4	6,347.5	22.5	18.8	64.99	-1,161.7	33.5	232.1	201.5	30.64	7.574	
6,600.0	6,451.3	6,521.9	6,377.2	22.5	18.8	63.31	-1,161.7	65.4	235.4	204.9	30.53	7.711	
6,650.0	6,488.4	6,565.2	6,404.8	22.5	18.7	61.77	-1,161.7	98.7	238.7	208.3	30.41	7.851	
6,700.0	6,523.2	6,608.2	6,430.3	22.6	18.7	60.36	-1,161.7	133.2	242.0	211.7	30.29	7.988	
6,750.0	6,555.5	6,650.0	6,453.3	22.6	18.6	59.09	-1,161.7	168.2	245.1	214.9	30.21	8.115	
6,800.0	6,585.4	6,693.3	6,475.0	22.7	18.6	57.92	-1,161.7	205.7	248.1	217.9	30.21	8.214	
6,850.0	6,612.5	6,735.6	6,494.1	22.8	18.6	56.88	-1,161.7	243.4	251.0	220.7	30.30	8.282	
6,900.0	6,636.8	6,777.7	6,511.0	22.9	18.5	55.96	-1,161.7	281.9	253.6	223.1	30.52	8.310	
6,950.0	6,658.2	6,819.6	6,525.7	23.1	18.5	55.16	-1,161.7	321.1	256.0	225.1	30.89	8.288	
7,000.0	6,676.6	6,861.3	6,538.2	23.3	18.8	54.48	-1,161.7	361.0	258.1	226.7	31.41	8.217	
7,050.0	6,692.0	6,900.0	6,547.8	23.6	19.4	53.93	-1,161.7	398.5	259.9	227.8	32.10	8.099	
7,100.0	6,704.2	6,944.5	6,556.5	23.9	20.1	53.43	-1,161.7	442.1	261.4	228.4	33.04	7.912	
7,150.0	6,713.1	6,985.9	6,562.3	24.4	20.9	53.06	-1,161.7	483.1	262.6	228.5	34.15	7.690	
7,200.0	6,718.9	7,027.3	6,565.8	25.0	21.6	52.80	-1,161.7	524.3	263.5	228.1	35.45	7.434	
7,250.0	6,721.4	7,068.6	6,567.2	25.7	22.4	52.65	-1,161.7	565.6	264.0	227.1	36.91	7.154	
7,265.7	6,721.5	7,082.8	6,567.2	25.9	22.7	52.62	-1,161.7	579.8	264.1	226.7	37.42	7.059	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
7,300.0	6,721.4	7,117.1	6,567.0	26.4	23.4	52.61	-1,161.7	614.1	264.2	225.6	38.55	6.852	
7,400.0	6,721.1	7,217.1	6,566.6	28.2	25.5	52.60	-1,161.7	714.1	264.2	222.2	41.98	6.294	
7,500.0	6,720.7	7,317.1	6,566.1	30.2	27.7	52.58	-1,161.7	814.1	264.3	218.7	45.60	5.795	
7,600.0	6,720.4	7,417.1	6,565.7	32.3	30.0	52.56	-1,161.7	914.1	264.3	215.0	49.38	5.353	
7,700.0	6,720.1	7,517.1	6,565.3	34.6	32.4	52.54	-1,161.7	1,014.1	264.4	211.1	53.27	4.963	
7,800.0	6,719.7	7,617.1	6,564.8	37.0	34.8	52.52	-1,161.7	1,114.1	264.5	207.2	57.26	4.619	
7,900.0	6,719.4	7,717.1	6,564.4	39.4	37.3	52.51	-1,161.7	1,214.1	264.5	203.2	61.32	4.314	
8,000.0	6,719.1	7,817.1	6,563.9	41.9	39.8	52.49	-1,161.7	1,314.1	264.6	199.2	65.44	4.043	
8,100.0	6,718.7	7,917.1	6,563.5	44.4	42.4	52.47	-1,161.7	1,414.1	264.7	195.0	69.61	3.802	
8,200.0	6,718.4	8,017.1	6,563.1	46.9	45.0	52.45	-1,161.7	1,514.1	264.7	190.9	73.82	3.586	
8,300.0	6,718.1	8,117.1	6,562.6	49.5	47.6	52.43	-1,161.7	1,614.1	264.8	186.7	78.06	3.392	
8,400.0	6,717.7	8,217.1	6,562.2	52.1	50.3	52.41	-1,161.7	1,714.1	264.8	182.5	82.33	3.217	
8,500.0	6,717.4	8,317.1	6,561.8	54.7	52.9	52.40	-1,161.7	1,814.1	264.9	178.3	86.63	3.058	
8,600.0	6,717.1	8,417.1	6,561.3	57.4	55.6	52.38	-1,161.7	1,914.1	265.0	174.0	90.94	2.914	
8,700.0	6,716.7	8,517.1	6,560.9	60.1	58.3	52.36	-1,161.7	2,014.1	265.0	169.8	95.27	2.782	
8,800.0	6,716.4	8,617.1	6,560.5	62.7	61.0	52.34	-1,161.7	2,114.1	265.1	165.5	99.62	2.661	
8,900.0	6,716.1	8,717.1	6,560.0	65.4	63.7	52.32	-1,161.7	2,214.1	265.2	161.2	103.97	2.550	
9,000.0	6,715.8	8,817.1	6,559.6	68.1	66.4	52.31	-1,161.7	2,314.1	265.2	156.9	108.34	2.448	
9,100.0	6,715.4	8,917.1	6,559.1	70.8	69.1	52.29	-1,161.7	2,414.1	265.3	152.6	112.72	2.354	
9,200.0	6,715.1	9,017.1	6,558.7	73.5	71.8	52.27	-1,161.7	2,514.1	265.4	148.3	117.11	2.266	
9,300.0	6,714.8	9,117.1	6,558.3	76.3	74.6	52.25	-1,161.7	2,614.1	265.4	143.9	121.50	2.185	
9,400.0	6,714.4	9,217.1	6,557.8	79.0	77.3	52.24	-1,161.7	2,714.1	265.5	139.6	125.90	2.109	
9,500.0	6,714.1	9,317.1	6,557.4	81.7	80.0	52.22	-1,161.7	2,814.1	265.5	135.2	130.30	2.038	
9,600.0	6,713.8	9,417.1	6,557.0	84.5	82.8	52.20	-1,161.7	2,914.1	265.6	130.9	134.71	1.972	
9,700.0	6,713.4	9,517.1	6,556.5	87.2	85.5	52.18	-1,161.7	3,014.1	265.7	126.6	139.12	1.910	
9,800.0	6,713.1	9,617.1	6,556.1	89.9	88.3	52.16	-1,161.7	3,114.1	265.7	122.2	143.53	1.851	
9,900.0	6,712.8	9,717.1	6,555.7	92.7	91.0	52.15	-1,161.7	3,214.1	265.8	117.9	147.95	1.797	
10,000.0	6,712.4	9,817.1	6,555.2	95.4	93.8	52.13	-1,161.7	3,314.1	265.9	113.5	152.37	1.745	
10,100.0	6,712.1	9,917.1	6,554.8	98.2	96.6	52.11	-1,161.7	3,414.1	265.9	109.1	156.79	1.696	
10,200.0	6,711.8	10,017.1	6,554.3	101.0	99.3	52.09	-1,161.7	3,514.1	266.0	104.8	161.22	1.650	
10,300.0	6,711.4	10,117.1	6,553.9	103.7	102.1	52.07	-1,161.7	3,614.1	266.1	100.4	165.64	1.606	
10,400.0	6,711.1	10,217.1	6,553.5	106.5	104.9	52.06	-1,161.7	3,714.1	266.1	96.1	170.07	1.565	
10,500.0	6,710.8	10,317.1	6,553.0	109.3	107.7	52.04	-1,161.7	3,814.1	266.2	91.7	174.49	1.525	
10,600.0	6,710.4	10,417.1	6,552.6	112.0	110.4	52.02	-1,161.7	3,914.1	266.3	87.3	178.92	1.488	Level 3
10,700.0	6,710.1	10,517.1	6,552.2	114.8	113.2	52.00	-1,161.7	4,014.1	266.3	83.0	183.35	1.453	Level 3
10,800.0	6,709.8	10,617.1	6,551.7	117.6	116.0	51.99	-1,161.7	4,114.1	266.4	78.6	187.78	1.419	Level 3
10,900.0	6,709.5	10,717.1	6,551.3	120.3	118.8	51.97	-1,161.7	4,214.1	266.4	74.2	192.21	1.386	Level 3
11,000.0	6,709.1	10,817.1	6,550.9	123.1	121.5	51.95	-1,161.7	4,314.1	266.5	69.9	196.63	1.355	Level 3
11,100.0	6,708.8	10,917.1	6,550.4	125.9	124.3	51.93	-1,161.7	4,414.1	266.6	65.5	201.06	1.326	Level 3
11,200.0	6,708.5	11,017.1	6,550.0	128.7	127.1	51.91	-1,161.7	4,514.1	266.6	61.1	205.49	1.298	Level 3
11,300.0	6,708.1	11,117.1	6,549.5	131.5	129.9	51.90	-1,161.7	4,614.1	266.7	56.8	209.92	1.270	Level 3
11,400.0	6,707.8	11,217.1	6,549.1	134.2	132.7	51.88	-1,161.7	4,714.1	266.8	52.4	214.35	1.245	Level 2
11,500.0	6,707.5	11,317.1	6,548.7	137.0	135.5	51.86	-1,161.7	4,814.1	266.8	48.1	218.77	1.220	Level 2
11,600.0	6,707.1	11,417.1	6,548.2	139.8	138.3	51.84	-1,161.7	4,914.1	266.9	43.7	223.20	1.196	Level 2
11,700.0	6,706.8	11,517.1	6,547.8	142.6	141.0	51.83	-1,161.7	5,014.1	267.0	39.3	227.62	1.173	Level 2
11,800.0	6,706.5	11,617.1	6,547.4	145.4	143.8	51.81	-1,161.7	5,114.1	267.0	35.0	232.05	1.151	Level 2
11,900.0	6,706.1	11,717.1	6,546.9	148.2	146.6	51.79	-1,161.7	5,214.1	267.1	30.6	236.47	1.129	Level 2
12,000.0	6,705.8	11,817.1	6,546.5	151.0	149.4	51.77	-1,161.7	5,314.1	267.2	26.3	240.89	1.109	Level 2
12,100.0	6,705.5	11,917.1	6,546.1	153.7	152.2	51.75	-1,161.7	5,414.0	267.2	21.9	245.32	1.089	Level 2
12,200.0	6,705.1	12,017.1	6,545.6	156.5	155.0	51.74	-1,161.7	5,514.0	267.3	17.5	249.74	1.070	Level 2
12,300.0	6,704.8	12,117.1	6,545.2	159.3	157.8	51.72	-1,161.7	5,614.0	267.3	13.2	254.16	1.052	Level 2

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
12,400.0	6,704.5	12,217.1	6,544.7	162.1	160.6	51.70	-1,161.7	5,714.0	267.4	8.8	258.58	1.034	Level 2
12,500.0	6,704.1	12,317.1	6,544.3	164.9	163.4	51.68	-1,161.7	5,814.0	267.5	4.5	262.99	1.017	Level 2
12,600.0	6,703.8	12,417.1	6,543.9	167.7	166.2	51.67	-1,161.7	5,914.0	267.5	0.1	267.41	1.000	Level 2
12,700.0	6,703.5	12,517.1	6,543.4	170.5	169.0	51.65	-1,161.7	6,014.0	267.6	-4.2	271.82	0.984	Level 1
12,800.0	6,703.2	12,617.1	6,543.0	173.3	171.8	51.63	-1,161.7	6,114.0	267.7	-8.6	276.24	0.969	Level 1
12,900.0	6,702.8	12,717.1	6,542.6	176.1	174.6	51.61	-1,161.7	6,214.0	267.7	-12.9	280.65	0.954	Level 1
13,000.0	6,702.5	12,817.1	6,542.1	178.9	177.4	51.60	-1,161.7	6,314.0	267.8	-17.3	285.06	0.939	Level 1
13,100.0	6,702.2	12,917.1	6,541.7	181.7	180.1	51.58	-1,161.7	6,414.0	267.9	-21.6	289.47	0.925	Level 1
13,200.0	6,701.8	13,017.1	6,541.3	184.5	182.9	51.56	-1,161.7	6,514.0	267.9	-26.0	293.88	0.912	Level 1
13,300.0	6,701.5	13,117.1	6,540.8	187.3	185.7	51.54	-1,161.7	6,614.0	268.0	-30.3	298.29	0.898	Level 1
13,400.0	6,701.2	13,217.1	6,540.4	190.1	188.5	51.52	-1,161.7	6,714.0	268.1	-34.6	302.69	0.886	Level 1
13,500.0	6,700.8	13,317.1	6,539.9	192.9	191.3	51.51	-1,161.7	6,814.0	268.1	-39.0	307.10	0.873	Level 1
13,600.0	6,700.5	13,417.1	6,539.5	195.7	194.1	51.49	-1,161.7	6,914.0	268.2	-43.3	311.50	0.861	Level 1
13,700.0	6,700.2	13,517.1	6,539.1	198.4	196.9	51.47	-1,161.7	7,014.0	268.3	-47.6	315.90	0.849	Level 1
13,800.0	6,699.8	13,617.1	6,538.6	201.2	199.7	51.45	-1,161.7	7,114.0	268.3	-52.0	320.30	0.838	Level 1
13,900.0	6,699.5	13,717.1	6,538.2	204.0	202.5	51.44	-1,161.7	7,214.0	268.4	-56.3	324.70	0.827	Level 1
14,000.0	6,699.2	13,817.1	6,537.8	206.8	205.3	51.42	-1,161.7	7,314.0	268.4	-60.6	329.09	0.816	Level 1
14,100.0	6,698.8	13,917.1	6,537.3	209.6	208.1	51.40	-1,161.7	7,414.0	268.5	-65.0	333.49	0.805	Level 1
14,200.0	6,698.5	14,017.1	6,536.9	212.4	210.9	51.38	-1,161.7	7,514.0	268.6	-69.3	337.88	0.795	Level 1
14,300.0	6,698.2	14,117.1	6,536.5	215.2	213.7	51.37	-1,161.7	7,614.0	268.6	-73.6	342.27	0.785	Level 1
14,400.0	6,697.8	14,217.1	6,536.0	218.0	216.5	51.35	-1,161.7	7,714.0	268.7	-78.0	346.66	0.775	Level 1
14,500.0	6,697.5	14,317.1	6,535.6	220.8	219.3	51.33	-1,161.7	7,814.0	268.8	-82.3	351.05	0.766	Level 1
14,600.0	6,697.2	14,417.1	6,535.1	223.6	222.1	51.31	-1,161.7	7,914.0	268.8	-86.6	355.44	0.756	Level 1
14,700.0	6,696.8	14,517.1	6,534.7	226.4	224.9	51.30	-1,161.7	8,014.0	268.9	-90.9	359.82	0.747	Level 1
14,800.0	6,696.5	14,617.1	6,534.3	229.2	227.7	51.28	-1,161.7	8,114.0	269.0	-95.2	364.21	0.738	Level 1
14,900.0	6,696.2	14,717.1	6,533.8	232.0	230.5	51.26	-1,161.7	8,214.0	269.0	-99.6	368.59	0.730	Level 1
15,000.0	6,695.9	14,817.1	6,533.4	234.8	233.3	51.24	-1,161.7	8,314.0	269.1	-103.9	372.97	0.721	Level 1
15,100.0	6,695.5	14,917.1	6,533.0	237.6	236.1	51.23	-1,161.7	8,414.0	269.2	-108.2	377.35	0.713	Level 1
15,200.0	6,695.2	15,017.1	6,532.5	240.4	239.0	51.21	-1,161.7	8,514.0	269.2	-112.5	381.72	0.705	Level 1
15,300.0	6,694.9	15,117.1	6,532.1	243.2	241.8	51.19	-1,161.7	8,614.0	269.3	-116.8	386.10	0.697	Level 1
15,400.0	6,694.5	15,217.1	6,531.7	246.0	244.6	51.18	-1,161.7	8,714.0	269.4	-121.1	390.47	0.690	Level 1
15,500.0	6,694.2	15,317.1	6,531.2	248.9	247.4	51.16	-1,161.7	8,814.0	269.4	-125.4	394.84	0.682	Level 1
15,600.0	6,693.9	15,417.1	6,530.8	251.7	250.2	51.14	-1,161.7	8,914.0	269.5	-129.7	399.21	0.675	Level 1
15,700.0	6,693.5	15,517.1	6,530.3	254.5	253.0	51.12	-1,161.7	9,014.0	269.6	-134.0	403.58	0.668	Level 1
15,800.0	6,693.2	15,617.1	6,529.9	257.3	255.8	51.11	-1,161.7	9,114.0	269.6	-138.3	407.95	0.661	Level 1
15,900.0	6,692.9	15,717.1	6,529.5	260.1	258.6	51.09	-1,161.7	9,214.0	269.7	-142.6	412.31	0.654	Level 1
16,000.0	6,692.5	15,817.1	6,529.0	262.9	261.4	51.07	-1,161.7	9,314.0	269.7	-146.9	416.68	0.647	Level 1
16,100.0	6,692.2	15,917.1	6,528.6	265.7	264.2	51.05	-1,161.7	9,414.0	269.8	-151.2	421.04	0.641	Level 1
16,200.0	6,691.9	16,017.1	6,528.2	268.5	267.0	51.04	-1,161.7	9,514.0	269.9	-155.5	425.40	0.634	Level 1
16,300.0	6,691.5	16,117.1	6,527.7	271.3	269.8	51.02	-1,161.7	9,614.0	269.9	-159.8	429.76	0.628	Level 1
16,400.0	6,691.2	16,217.1	6,527.3	274.1	272.6	51.00	-1,161.7	9,714.0	270.0	-164.1	434.11	0.622	Level 1
16,464.1	6,691.0	16,281.2	6,527.0	275.9	274.4	50.99	-1,161.7	9,778.1	270.1	-166.8	436.90	0.618	Level 1, ES, SF

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26E-332 - Wellbore #1 - Plan #1 Extension (3-4-

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	35.15	36.8	25.9	45.0				
100.0	100.0	99.0	99.0	0.1	0.1	35.15	36.8	25.9	45.0	44.8	0.22	201.228	
200.0	200.0	199.0	199.0	0.3	0.3	35.15	36.8	25.9	45.0	44.3	0.67	66.964	
300.0	300.0	299.0	299.0	0.6	0.6	35.15	36.8	25.9	45.0	43.9	1.12	40.125	
400.0	400.0	399.0	399.0	0.8	0.8	35.15	36.8	25.9	45.0	43.4	1.57	28.644	
500.0	500.0	499.0	499.0	1.0	1.0	35.15	36.8	25.9	45.0	43.0	2.02	22.272	
600.0	600.0	599.0	599.0	1.2	1.2	35.15	36.8	25.9	45.0	42.5	2.47	18.219	
700.0	700.0	699.0	699.0	1.5	1.5	35.15	36.8	25.9	45.0	42.1	2.92	15.414	
800.0	800.0	799.0	799.0	1.7	1.7	35.15	36.8	25.9	45.0	41.6	3.37	13.357	CC, ES
900.0	900.0	899.0	899.0	1.9	1.9	-156.56	36.8	25.9	46.2	42.4	3.79	12.184	
1,000.0	999.9	998.9	998.9	2.1	2.1	-158.33	36.8	25.9	49.8	45.6	4.20	11.876	
1,100.0	1,099.7	1,098.7	1,098.7	2.3	2.4	-160.78	36.8	25.9	56.0	51.4	4.61	12.144	
1,200.0	1,199.3	1,198.3	1,198.3	2.5	2.6	-163.41	36.8	25.9	64.7	59.6	5.03	12.868	
1,300.0	1,298.6	1,297.6	1,297.6	2.7	2.8	-165.90	36.8	25.9	76.0	70.6	5.45	13.953	
1,400.0	1,397.5	1,396.5	1,396.5	3.0	3.0	-168.08	36.8	25.9	90.0	84.1	5.87	15.328	
1,500.0	1,496.1	1,495.1	1,495.1	3.3	3.2	-169.91	36.8	25.9	106.6	100.3	6.30	16.934	
1,600.0	1,594.2	1,593.2	1,593.2	3.6	3.5	-171.42	36.8	25.9	125.9	119.2	6.72	18.726	
1,682.1	1,674.3	1,673.3	1,673.3	3.9	3.6	-172.45	36.8	25.9	143.7	136.6	7.07	20.311	
1,700.0	1,691.7	1,690.7	1,690.7	4.0	3.7	-172.66	36.8	25.9	147.7	140.6	7.15	20.653	
1,800.0	1,789.1	1,788.1	1,788.1	4.4	3.9	-173.64	36.8	25.9	170.5	162.9	7.60	22.425	
1,900.0	1,886.4	1,885.4	1,885.4	4.8	4.1	-174.40	36.8	25.9	193.2	185.2	8.06	23.988	
2,000.0	1,983.7	1,982.7	1,982.7	5.3	4.3	-174.99	36.8	25.9	216.0	207.5	8.51	25.374	
2,100.0	2,081.1	2,080.1	2,080.1	5.7	4.6	-175.47	36.8	25.9	238.8	229.9	8.98	26.609	
2,200.0	2,178.4	2,177.4	2,177.4	6.2	4.8	-175.86	36.8	25.9	261.7	252.2	9.44	27.716	
2,300.0	2,275.8	2,274.8	2,274.8	6.6	5.0	-176.20	36.8	25.9	284.5	274.6	9.91	28.713	
2,400.0	2,373.1	2,372.1	2,372.1	7.1	5.2	-176.48	36.8	25.9	307.3	297.0	10.38	29.614	
2,500.0	2,470.5	2,469.5	2,469.5	7.5	5.4	-176.72	36.8	25.9	330.2	319.3	10.85	30.432	
2,600.0	2,567.8	2,566.8	2,566.8	8.0	5.7	-176.94	36.8	25.9	353.1	341.7	11.32	31.177	
2,700.0	2,665.2	2,664.2	2,664.2	8.5	5.9	-177.12	36.8	25.9	375.9	364.1	11.80	31.860	
2,800.0	2,762.5	2,761.5	2,761.5	9.0	6.1	-177.29	36.8	25.9	398.8	386.5	12.28	32.486	
2,900.0	2,859.9	2,860.3	2,860.3	9.4	6.3	-177.48	36.8	25.6	421.5	408.8	12.75	33.071	
3,000.0	2,957.2	2,960.1	2,960.1	9.9	6.5	-177.85	36.6	23.7	443.8	430.6	13.21	33.607	
3,100.0	3,054.5	3,060.0	3,059.9	10.4	6.7	-178.40	36.3	20.0	465.6	451.9	13.66	34.077	
3,200.0	3,151.9	3,160.0	3,159.8	10.9	6.9	-179.10	35.8	14.6	486.9	472.8	14.13	34.470	
3,300.0	3,249.2	3,260.1	3,259.6	11.4	7.1	-179.93	35.2	7.5	507.8	493.2	14.60	34.794	
3,400.0	3,346.6	3,360.0	3,359.1	11.8	7.3	179.12	34.4	-1.3	528.4	513.3	15.07	35.052	
3,500.0	3,443.9	3,459.9	3,458.4	12.3	7.6	178.07	33.5	-11.9	548.6	533.0	15.56	35.248	
3,600.0	3,541.3	3,559.0	3,556.8	12.8	7.8	176.93	32.4	-24.1	568.6	552.6	16.07	35.391	
3,700.0	3,638.6	3,656.4	3,653.4	13.3	8.0	175.84	31.4	-36.5	588.7	572.2	16.58	35.507	
3,800.0	3,736.0	3,753.7	3,749.9	13.8	8.3	174.82	30.3	-48.9	609.1	591.9	17.11	35.606	
3,900.0	3,833.3	3,851.1	3,846.5	14.3	8.5	173.87	29.2	-61.3	629.5	611.9	17.64	35.689	
4,000.0	3,930.6	3,948.4	3,943.0	14.8	8.8	172.98	28.1	-73.8	650.2	632.0	18.18	35.758	
4,100.0	4,028.0	4,045.8	4,039.6	15.2	9.0	172.14	27.0	-86.2	671.0	652.2	18.73	35.814	
4,200.0	4,125.3	4,143.1	4,136.1	15.7	9.3	171.35	26.0	-98.6	691.9	672.6	19.29	35.859	
4,300.0	4,222.7	4,240.5	4,232.7	16.2	9.5	170.61	24.9	-111.0	712.9	693.1	19.86	35.895	
4,400.0	4,320.0	4,337.9	4,329.2	16.7	9.8	169.91	23.8	-123.5	734.1	713.6	20.44	35.922	
4,500.0	4,417.4	4,435.2	4,425.8	17.2	10.1	169.24	22.7	-135.9	755.3	734.3	21.01	35.942	
4,600.0	4,514.7	4,532.6	4,522.3	17.7	10.4	168.62	21.6	-148.3	776.6	755.0	21.60	35.956	
4,700.0	4,612.1	4,629.9	4,618.9	18.2	10.6	168.03	20.5	-160.8	798.1	775.9	22.19	35.965	
4,800.0	4,709.4	4,725.7	4,714.0	18.7	10.9	167.56	19.6	-171.8	819.6	796.9	22.74	36.042	
4,900.0	4,806.8	4,821.4	4,809.4	19.2	11.1	167.33	18.9	-179.8	841.5	818.2	23.25	36.197	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26E-332 - Wellbore #1 - Plan #1 Extension (3-4-

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.0	4,904.1	4,917.1	4,904.9	19.6	11.3	167.33	18.5	-184.5	863.5	839.8	23.73	36.397	
5,100.0	5,001.4	5,012.6	5,000.4	20.1	11.5	167.55	18.3	-186.1	885.8	861.6	24.17	36.641	
5,144.0	5,044.3	5,055.5	5,043.3	20.3	11.5	167.69	18.3	-186.1	895.6	871.3	24.37	36.750	
5,200.0	5,098.9	5,110.1	5,097.9	20.6	11.6	167.90	18.3	-186.1	907.7	883.0	24.66	36.810	
5,300.0	5,197.0	5,208.2	5,196.0	20.9	11.8	168.23	18.3	-186.1	926.5	901.4	25.14	36.855	
5,400.0	5,295.8	5,306.9	5,294.8	21.2	12.1	168.49	18.3	-186.1	942.0	916.4	25.59	36.812	
5,500.0	5,395.0	5,406.2	5,394.0	21.4	12.3	168.69	18.3	-186.1	954.2	928.2	26.01	36.687	
5,600.0	5,494.6	5,505.8	5,493.6	21.6	12.5	168.83	18.3	-186.1	962.9	936.5	26.39	36.486	
5,700.0	5,594.4	5,605.6	5,593.4	21.7	12.7	168.91	18.3	-186.1	968.2	941.5	26.74	36.213	
5,805.6	5,700.0	5,711.2	5,699.0	21.9	12.9	-0.01	18.3	-186.1	970.2	936.2	33.92	28.605	
5,900.0	5,794.4	5,805.6	5,793.4	22.0	13.1	-0.01	18.3	-186.1	970.2	935.9	34.23	28.341	
5,967.1	5,861.5	5,872.7	5,860.5	22.1	13.2	-0.01	18.3	-186.1	970.2	935.7	34.45	28.163	
6,000.0	5,894.4	5,905.6	5,893.4	22.1	13.3	0.00	18.3	-185.9	970.2	935.6	34.55	28.079	
6,002.2	5,896.7	5,907.8	5,895.7	22.1	13.3	0.01	18.3	-185.9	970.2	935.6	34.56	28.074	
6,063.1	5,957.6	5,968.5	5,956.2	22.2	13.4	0.23	18.3	-182.0	970.2	935.4	34.75	27.922	
6,100.0	5,994.4	6,004.8	5,992.2	22.2	13.5	-89.54	18.3	-177.4	970.2	942.1	28.09	34.540	
6,150.0	6,044.2	6,053.9	6,040.5	22.2	13.5	-89.25	18.3	-168.5	970.2	942.0	28.20	34.408	
6,200.0	6,093.7	6,102.7	6,087.8	22.3	13.6	-88.95	18.3	-156.6	970.3	942.0	28.29	34.299	
6,250.0	6,142.6	6,151.2	6,133.9	22.3	13.6	-88.66	18.3	-141.8	970.4	942.1	28.37	34.207	
6,300.0	6,190.6	6,200.0	6,179.4	22.4	13.7	-88.37	18.3	-124.0	970.5	942.1	28.45	34.120	
6,350.0	6,237.7	6,247.2	6,222.2	22.4	13.7	-88.10	18.3	-104.0	970.7	942.2	28.53	34.029	
6,400.0	6,283.6	6,294.9	6,264.0	22.4	13.8	-87.84	18.3	-81.2	970.9	942.2	28.62	33.918	
6,450.0	6,328.1	6,342.3	6,304.1	22.4	13.9	-87.58	18.3	-55.9	971.0	942.3	28.75	33.774	
6,500.0	6,371.0	6,389.4	6,342.4	22.4	14.0	-87.33	18.3	-28.4	971.2	942.3	28.92	33.579	
6,550.0	6,412.1	6,436.3	6,378.7	22.5	14.2	-87.09	18.3	1.2	971.4	942.3	29.16	33.318	
6,600.0	6,451.3	6,483.1	6,413.0	22.5	14.4	-86.87	18.3	32.9	971.6	942.1	29.47	32.974	
6,650.0	6,488.4	6,529.6	6,445.2	22.5	14.6	-86.66	18.3	66.5	971.8	941.9	29.87	32.534	
6,700.0	6,523.2	6,575.9	6,475.1	22.6	14.9	-86.46	18.3	101.9	972.0	941.6	30.39	31.990	
6,750.0	6,555.5	6,622.1	6,502.8	22.6	15.3	-86.28	18.3	138.9	972.2	941.2	31.02	31.338	
6,800.0	6,585.4	6,668.1	6,528.1	22.7	15.7	-86.11	18.3	177.3	972.4	940.6	31.80	30.583	
6,850.0	6,612.5	6,714.0	6,551.0	22.8	16.2	-85.96	18.3	217.1	972.6	939.9	32.71	29.732	
6,900.0	6,636.8	6,759.8	6,571.4	22.9	16.8	-85.82	18.3	258.0	972.7	939.0	33.77	28.803	
6,950.0	6,658.2	6,805.4	6,589.2	23.1	17.4	-85.70	18.3	300.0	972.9	937.9	34.98	27.814	
7,000.0	6,676.6	6,850.0	6,604.2	23.3	18.1	-85.60	18.3	342.0	973.0	936.7	36.31	26.797	
7,050.0	6,692.0	6,896.5	6,617.2	23.6	18.9	-85.51	18.3	386.6	973.1	935.3	37.81	25.736	
7,100.0	6,704.2	6,941.9	6,627.3	23.9	19.7	-85.44	18.3	430.9	973.2	933.8	39.42	24.689	
7,150.0	6,713.1	6,987.3	6,634.7	24.4	20.6	-85.39	18.3	475.7	973.3	932.2	41.13	23.663	
7,200.0	6,718.9	7,032.6	6,639.4	25.0	21.5	-85.36	18.3	520.8	973.3	930.4	42.93	22.671	
7,250.0	6,721.4	7,077.9	6,641.4	25.7	22.4	-85.35	18.3	566.0	973.4	928.6	44.81	21.722	
7,265.7	6,721.5	7,092.1	6,641.5	25.9	22.7	-85.35	18.3	580.2	973.4	928.0	45.41	21.436	
7,265.8	6,721.5	7,092.3	6,641.5	25.9	22.7	-85.35	18.3	580.4	973.4	927.9	45.42	21.433	
7,300.0	6,721.4	7,126.1	6,641.3	26.4	23.4	-85.34	18.3	614.2	973.4	926.5	46.84	20.780	
7,400.0	6,721.1	7,226.1	6,640.5	28.2	25.6	-85.31	18.3	714.2	973.4	922.2	51.19	19.016	
7,500.0	6,720.7	7,326.1	6,639.7	30.2	27.9	-85.29	18.3	814.2	973.4	917.7	55.76	17.458	
7,600.0	6,720.4	7,426.1	6,639.0	32.3	30.3	-85.26	18.3	914.2	973.5	913.0	60.50	16.090	
7,700.0	6,720.1	7,526.1	6,638.2	34.6	32.8	-85.24	18.3	1,014.2	973.5	908.1	65.38	14.890	
7,800.0	6,719.7	7,626.1	6,637.4	37.0	35.3	-85.21	18.3	1,114.2	973.6	903.2	70.37	13.835	
7,900.0	6,719.4	7,726.1	6,636.7	39.4	37.8	-85.18	18.3	1,214.2	973.6	898.1	75.44	12.905	
8,000.0	6,719.1	7,826.1	6,635.9	41.9	40.4	-85.16	18.3	1,314.2	973.6	893.0	80.58	12.082	
8,100.0	6,718.7	7,926.1	6,635.1	44.4	43.0	-85.13	18.3	1,414.2	973.7	887.9	85.78	11.351	
8,200.0	6,718.4	8,026.1	6,634.4	46.9	45.7	-85.11	18.3	1,514.2	973.7	882.7	91.03	10.697	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26E-332 - Wellbore #1 - Plan #1 Extension (3-4-

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,300.0	6,718.1	8,126.1	6,633.6	49.5	48.3	-85.08	18.3	1,614.2	973.7	877.4	96.31	10.110	
8,400.0	6,717.7	8,226.1	6,632.8	52.1	51.0	-85.06	18.3	1,714.1	973.8	872.1	101.63	9.581	
8,500.0	6,717.4	8,326.1	6,632.1	54.7	53.7	-85.03	18.3	1,814.1	973.8	866.8	106.98	9.103	
8,600.0	6,717.1	8,426.1	6,631.3	57.4	56.4	-85.01	18.3	1,914.1	973.9	861.5	112.35	8.668	
8,700.0	6,716.7	8,526.1	6,630.5	60.1	59.1	-84.98	18.3	2,014.1	973.9	856.1	117.74	8.272	
8,800.0	6,716.4	8,626.1	6,629.8	62.7	61.8	-84.95	18.3	2,114.1	973.9	850.8	123.15	7.909	
8,900.0	6,716.1	8,726.1	6,629.0	65.4	64.6	-84.93	18.3	2,214.1	974.0	845.4	128.57	7.575	
9,000.0	6,715.8	8,826.1	6,628.2	68.1	67.3	-84.90	18.3	2,314.1	974.0	840.0	134.01	7.268	
9,100.0	6,715.4	8,926.1	6,627.5	70.8	70.0	-84.88	18.3	2,414.1	974.0	834.6	139.46	6.984	
9,200.0	6,715.1	9,026.1	6,626.7	73.5	72.8	-84.85	18.3	2,514.1	974.1	829.2	144.92	6.721	
9,300.0	6,714.8	9,126.1	6,625.9	76.3	75.5	-84.83	18.3	2,614.1	974.1	823.7	150.39	6.477	
9,400.0	6,714.4	9,226.1	6,625.2	79.0	78.3	-84.80	18.3	2,714.1	974.2	818.3	155.87	6.250	
9,500.0	6,714.1	9,326.1	6,624.4	81.7	81.1	-84.78	18.3	2,814.1	974.2	812.8	161.36	6.038	
9,600.0	6,713.8	9,426.1	6,623.6	84.5	83.8	-84.75	18.3	2,914.1	974.2	807.4	166.85	5.839	
9,700.0	6,713.4	9,526.1	6,622.8	87.2	86.6	-84.72	18.3	3,014.1	974.3	801.9	172.35	5.653	
9,800.0	6,713.1	9,626.1	6,622.1	89.9	89.3	-84.70	18.3	3,114.1	974.3	796.5	177.85	5.478	
9,900.0	6,712.8	9,726.1	6,621.3	92.7	92.1	-84.67	18.3	3,214.1	974.4	791.0	183.36	5.314	
10,000.0	6,712.4	9,826.1	6,620.5	95.4	94.9	-84.65	18.3	3,314.1	974.4	785.5	188.88	5.159	
10,100.0	6,712.1	9,926.1	6,619.8	98.2	97.7	-84.62	18.3	3,414.1	974.4	780.0	194.39	5.013	
10,200.0	6,711.8	10,026.1	6,619.0	101.0	100.4	-84.60	18.3	3,514.1	974.5	774.6	199.91	4.875	
10,300.0	6,711.4	10,126.1	6,618.2	103.7	103.2	-84.57	18.3	3,614.1	974.5	769.1	205.44	4.744	
10,400.0	6,711.1	10,226.1	6,617.5	106.5	106.0	-84.55	18.3	3,714.1	974.6	763.6	210.97	4.620	
10,500.0	6,710.8	10,326.1	6,616.7	109.3	108.8	-84.52	18.3	3,814.1	974.6	758.1	216.49	4.502	
10,600.0	6,710.4	10,426.1	6,615.9	112.0	111.6	-84.49	18.3	3,914.1	974.6	752.6	222.03	4.390	
10,700.0	6,710.1	10,526.1	6,615.2	114.8	114.3	-84.47	18.3	4,014.1	974.7	747.1	227.56	4.283	
10,800.0	6,709.8	10,626.1	6,614.4	117.6	117.1	-84.44	18.3	4,114.1	974.7	741.6	233.10	4.182	
10,900.0	6,709.5	10,726.1	6,613.6	120.3	119.9	-84.42	18.3	4,214.0	974.8	736.1	238.64	4.085	
11,000.0	6,709.1	10,826.1	6,612.9	123.1	122.7	-84.39	18.3	4,314.0	974.8	730.6	244.18	3.992	
11,100.0	6,708.8	10,926.1	6,612.1	125.9	125.5	-84.37	18.3	4,414.0	974.9	725.1	249.72	3.904	
11,200.0	6,708.5	11,026.1	6,611.3	128.7	128.3	-84.34	18.3	4,514.0	974.9	719.6	255.26	3.819	
11,300.0	6,708.1	11,126.1	6,610.6	131.5	131.1	-84.32	18.3	4,614.0	974.9	714.1	260.81	3.738	
11,400.0	6,707.8	11,226.1	6,609.8	134.2	133.9	-84.29	18.3	4,714.0	975.0	708.6	266.35	3.661	
11,500.0	6,707.5	11,326.1	6,609.0	137.0	136.7	-84.26	18.3	4,814.0	975.0	703.1	271.90	3.586	
11,600.0	6,707.1	11,426.1	6,608.3	139.8	139.5	-84.24	18.3	4,914.0	975.1	697.6	277.45	3.514	
11,700.0	6,706.8	11,526.1	6,607.5	142.6	142.2	-84.21	18.3	5,014.0	975.1	692.1	282.99	3.446	
11,800.0	6,706.5	11,626.0	6,606.7	145.4	145.0	-84.19	18.3	5,114.0	975.2	686.6	288.54	3.380	
11,900.0	6,706.1	11,726.0	6,606.0	148.2	147.8	-84.16	18.3	5,214.0	975.2	681.1	294.09	3.316	
12,000.0	6,705.8	11,826.0	6,605.2	151.0	150.6	-84.14	18.3	5,314.0	975.3	675.6	299.64	3.255	
12,100.0	6,705.5	11,926.0	6,604.4	153.7	153.4	-84.11	18.3	5,414.0	975.3	670.1	305.20	3.196	
12,200.0	6,705.1	12,026.0	6,603.6	156.5	156.2	-84.09	18.3	5,514.0	975.3	664.6	310.75	3.139	
12,300.0	6,704.8	12,126.0	6,602.9	159.3	159.0	-84.06	18.3	5,614.0	975.4	659.1	316.30	3.084	
12,400.0	6,704.5	12,226.0	6,602.1	162.1	161.8	-84.04	18.3	5,714.0	975.4	653.6	321.85	3.031	
12,500.0	6,704.1	12,326.0	6,601.3	164.9	164.6	-84.01	18.3	5,814.0	975.5	648.1	327.40	2.979	
12,600.0	6,703.8	12,426.0	6,600.6	167.7	167.4	-83.98	18.3	5,914.0	975.5	642.6	332.96	2.930	
12,700.0	6,703.5	12,526.0	6,599.8	170.5	170.2	-83.96	18.3	6,014.0	975.6	637.1	338.51	2.882	
12,800.0	6,703.2	12,626.0	6,599.0	173.3	173.0	-83.93	18.3	6,114.0	975.6	631.6	344.07	2.836	
12,900.0	6,702.8	12,726.0	6,598.3	176.1	175.8	-83.91	18.3	6,214.0	975.7	626.0	349.62	2.791	
13,000.0	6,702.5	12,826.0	6,597.5	178.9	178.6	-83.88	18.3	6,314.0	975.7	620.5	355.17	2.747	
13,100.0	6,702.2	12,926.0	6,596.7	181.7	181.4	-83.86	18.3	6,414.0	975.8	615.0	360.73	2.705	
13,200.0	6,701.8	13,026.0	6,596.0	184.5	184.2	-83.83	18.3	6,514.0	975.8	609.5	366.28	2.664	
13,300.0	6,701.5	13,126.0	6,595.2	187.3	187.0	-83.81	18.3	6,614.0	975.9	604.0	371.84	2.624	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26E-332 - Wellbore #1 - Plan #1 Extension (3-4-

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,400.0	6,701.2	13,226.0	6,594.4	190.1	189.8	-83.78	18.3	6,714.0	975.9	598.5	377.39	2.586	
13,500.0	6,700.8	13,326.0	6,593.7	192.9	192.6	-83.75	18.3	6,813.9	975.9	593.0	382.95	2.549	
13,600.0	6,700.5	13,426.0	6,592.9	195.7	195.4	-83.73	18.3	6,913.9	976.0	587.5	388.50	2.512	
13,700.0	6,700.2	13,526.0	6,592.1	198.4	198.2	-83.70	18.3	7,013.9	976.0	582.0	394.05	2.477	
13,800.0	6,699.8	13,626.0	6,591.4	201.2	201.0	-83.68	18.3	7,113.9	976.1	576.5	399.61	2.443	
13,900.0	6,699.5	13,726.0	6,590.6	204.0	203.8	-83.65	18.3	7,213.9	976.1	571.0	405.16	2.409	
14,000.0	6,699.2	13,826.0	6,589.8	206.8	206.6	-83.63	18.3	7,313.9	976.2	565.5	410.72	2.377	
14,100.0	6,698.8	13,926.0	6,589.1	209.6	209.4	-83.60	18.3	7,413.9	976.2	560.0	416.27	2.345	
14,200.0	6,698.5	14,026.0	6,588.3	212.4	212.2	-83.58	18.3	7,513.9	976.3	554.5	421.82	2.314	
14,300.0	6,698.2	14,126.0	6,587.5	215.2	215.0	-83.55	18.3	7,613.9	976.3	549.0	427.38	2.284	
14,400.0	6,697.8	14,226.0	6,586.8	218.0	217.8	-83.53	18.3	7,713.9	976.4	543.5	432.93	2.255	
14,500.0	6,697.5	14,326.0	6,586.0	220.8	220.6	-83.50	18.3	7,813.9	976.4	537.9	438.48	2.227	
14,600.0	6,697.2	14,426.0	6,585.2	223.6	223.4	-83.47	18.3	7,913.9	976.5	532.4	444.04	2.199	
14,700.0	6,696.8	14,526.0	6,584.5	226.4	226.2	-83.45	18.3	8,013.9	976.5	526.9	449.59	2.172	
14,800.0	6,696.5	14,626.0	6,583.7	229.2	229.0	-83.42	18.3	8,113.9	976.6	521.4	455.14	2.146	
14,900.0	6,696.2	14,726.0	6,582.9	232.0	231.9	-83.40	18.3	8,213.9	976.6	515.9	460.69	2.120	
15,000.0	6,695.9	14,826.0	6,582.1	234.8	234.7	-83.37	18.3	8,313.9	976.7	510.4	466.24	2.095	
15,100.0	6,695.5	14,926.0	6,581.4	237.6	237.5	-83.35	18.3	8,413.9	976.7	504.9	471.80	2.070	
15,200.0	6,695.2	15,026.0	6,580.6	240.4	240.3	-83.32	18.3	8,513.9	976.8	499.4	477.35	2.046	
15,300.0	6,694.9	15,126.0	6,579.8	243.2	243.1	-83.30	18.3	8,613.9	976.8	493.9	482.90	2.023	
15,400.0	6,694.5	15,226.0	6,579.1	246.0	245.9	-83.27	18.3	8,713.9	976.9	488.4	488.45	2.000	
15,500.0	6,694.2	15,326.0	6,578.3	248.9	248.7	-83.25	18.3	8,813.9	976.9	482.9	494.00	1.978	
15,600.0	6,693.9	15,426.0	6,577.5	251.7	251.5	-83.22	18.3	8,913.9	977.0	477.4	499.55	1.956	
15,700.0	6,693.5	15,526.0	6,576.8	254.5	254.3	-83.20	18.3	9,013.9	977.0	471.9	505.10	1.934	
15,800.0	6,693.2	15,626.0	6,576.0	257.3	257.1	-83.17	18.3	9,113.9	977.1	466.4	510.64	1.913	
15,900.0	6,692.9	15,726.0	6,575.2	260.1	259.9	-83.14	18.3	9,213.9	977.1	460.9	516.19	1.893	
16,000.0	6,692.5	15,826.0	6,574.5	262.9	262.7	-83.12	18.3	9,313.9	977.2	455.5	521.74	1.873	
16,100.0	6,692.2	15,926.0	6,573.7	265.7	265.5	-83.09	18.3	9,413.8	977.2	450.0	527.29	1.853	
16,200.0	6,691.9	16,026.0	6,572.9	268.5	268.3	-83.07	18.3	9,513.8	977.3	444.5	532.84	1.834	
16,300.0	6,691.5	16,126.0	6,572.2	271.3	271.1	-83.04	18.3	9,613.8	977.3	439.0	538.38	1.815	
16,400.0	6,691.2	16,226.0	6,571.4	274.1	273.9	-83.02	18.3	9,713.8	977.4	433.5	543.93	1.797	
16,430.0	6,691.1	16,256.0	6,571.2	274.9	274.8	-83.01	18.3	9,743.8	977.4	431.8	545.59	1.791	
16,464.1	6,691.0	16,277.5	6,571.0	275.9	275.4	-83.00	18.3	9,765.4	977.5	430.4	547.14	1.787	SF

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26E-402 - Wellbore #1 - Plan #2 (2-26-16)

Offset Site Error: 0.0 ft

Survey Program: -10-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	-10.0	-10.0	0.0	0.0	35.09	49.2	34.5	60.1				
100.0	100.0	89.0	89.0	0.1	0.2	35.09	49.2	34.5	60.1	59.8	0.32	185.689	
200.0	200.0	189.0	189.0	0.3	0.4	35.09	49.2	34.5	60.1	59.3	0.77	77.730	
300.0	300.0	289.0	289.0	0.6	0.7	35.09	49.2	34.5	60.1	58.9	1.22	49.153	
400.0	400.0	389.0	389.0	0.8	0.9	35.09	49.2	34.5	60.1	58.4	1.67	35.940	
500.0	500.0	489.0	489.0	1.0	1.1	35.09	49.2	34.5	60.1	58.0	2.12	28.325	
600.0	600.0	589.0	589.0	1.2	1.3	35.09	49.2	34.5	60.1	57.5	2.57	23.373	
700.0	700.0	689.0	689.0	1.5	1.6	35.09	49.2	34.5	60.1	57.1	3.02	19.895	
800.0	800.0	789.0	789.0	1.7	1.8	35.09	49.2	34.5	60.1	56.6	3.47	17.318	CC, ES
900.0	900.0	889.0	889.0	1.9	2.0	-156.46	49.2	34.5	61.3	57.4	3.89	15.746	
1,000.0	999.9	988.9	988.9	2.1	2.2	-157.82	49.2	34.5	64.9	60.6	4.30	15.109	
1,100.0	1,099.7	1,088.7	1,088.7	2.3	2.5	-159.78	49.2	34.5	71.0	66.3	4.71	15.083	SF
1,200.0	1,199.3	1,188.3	1,188.3	2.5	2.7	-162.02	49.2	34.5	79.7	74.5	5.13	15.542	
1,300.0	1,298.6	1,287.6	1,287.6	2.7	2.9	-164.26	49.2	34.5	90.9	85.4	5.55	16.389	
1,400.0	1,397.5	1,386.5	1,386.5	3.0	3.1	-166.33	49.2	34.5	104.8	98.8	5.97	17.550	
1,500.0	1,496.1	1,485.1	1,485.1	3.3	3.3	-168.17	49.2	34.5	121.3	114.9	6.40	18.966	
1,600.0	1,594.2	1,583.2	1,583.2	3.6	3.6	-169.75	49.2	34.5	140.5	133.7	6.82	20.590	
1,682.1	1,674.3	1,661.9	1,661.9	3.9	3.7	-171.00	49.6	34.2	158.5	151.3	7.17	22.103	
1,700.0	1,691.7	1,678.9	1,678.9	4.0	3.8	-171.31	49.8	34.1	162.7	155.5	7.25	22.446	
1,800.0	1,789.1	1,773.2	1,773.2	4.4	4.0	-173.17	52.3	32.2	187.2	179.5	7.69	24.346	
1,900.0	1,886.4	1,866.7	1,866.5	4.8	4.2	-175.11	56.6	28.9	213.2	205.1	8.13	26.223	
2,000.0	1,983.7	1,959.1	1,958.6	5.3	4.4	-177.06	62.6	24.3	241.0	232.4	8.58	28.083	
2,100.0	2,081.1	2,050.4	2,049.3	5.7	4.6	-178.97	70.2	18.4	270.4	261.3	9.03	29.926	
2,200.0	2,178.4	2,142.6	2,140.8	6.2	4.9	179.17	79.6	11.3	301.4	291.9	9.50	31.728	
2,300.0	2,275.8	2,237.1	2,234.5	6.6	5.1	177.57	89.4	3.8	332.9	323.0	9.98	33.371	
2,400.0	2,373.1	2,331.6	2,328.2	7.1	5.3	176.25	99.2	-3.7	364.6	354.2	10.46	34.853	
2,500.0	2,470.5	2,426.1	2,421.9	7.5	5.6	175.13	109.0	-11.2	396.5	385.6	10.95	36.201	
2,600.0	2,567.8	2,520.7	2,515.6	8.0	5.9	174.19	118.8	-18.7	428.5	417.0	11.45	37.425	
2,700.0	2,665.2	2,615.2	2,609.4	8.5	6.1	173.37	128.6	-26.2	460.6	448.6	11.95	38.540	
2,800.0	2,762.5	2,709.7	2,703.1	9.0	6.4	172.66	138.5	-33.7	492.7	480.3	12.46	39.557	
2,900.0	2,859.9	2,804.3	2,796.8	9.4	6.7	172.04	148.3	-41.2	524.9	512.0	12.96	40.488	
3,000.0	2,957.2	2,898.8	2,890.5	9.9	6.9	171.48	158.1	-48.7	557.2	543.7	13.48	41.343	
3,100.0	3,054.5	2,993.3	2,984.2	10.4	7.2	170.99	167.9	-56.2	589.5	575.5	13.99	42.130	
3,200.0	3,151.9	3,087.8	3,077.9	10.9	7.5	170.55	177.7	-63.7	621.8	607.3	14.51	42.856	
3,300.0	3,249.2	3,182.4	3,171.7	11.4	7.8	170.16	187.5	-71.2	654.2	639.1	15.03	43.527	
3,400.0	3,346.6	3,276.9	3,265.4	11.8	8.1	169.80	197.3	-78.7	686.5	671.0	15.55	44.150	
3,500.0	3,443.9	3,371.4	3,359.1	12.3	8.4	169.47	207.2	-86.2	719.0	702.9	16.07	44.729	
3,600.0	3,541.3	3,465.9	3,452.8	12.8	8.7	169.17	217.0	-93.7	751.4	734.8	16.60	45.268	
3,700.0	3,638.6	3,560.5	3,546.5	13.3	9.0	168.90	226.8	-101.2	783.8	766.7	17.12	45.771	
3,800.0	3,736.0	3,655.0	3,640.2	13.8	9.2	168.64	236.6	-108.7	816.3	798.6	17.65	46.242	
3,900.0	3,833.3	3,749.5	3,733.9	14.3	9.5	168.41	246.4	-116.2	848.8	830.6	18.18	46.683	
4,000.0	3,930.6	3,844.0	3,827.7	14.8	9.8	168.19	256.2	-123.7	881.2	862.5	18.71	47.096	
4,100.0	4,028.0	3,938.6	3,921.4	15.2	10.1	167.99	266.0	-131.2	913.7	894.5	19.24	47.486	
4,200.0	4,125.3	4,033.1	4,015.1	15.7	10.4	167.81	275.9	-138.7	946.2	926.5	19.77	47.852	
4,300.0	4,222.7	4,127.6	4,108.8	16.2	10.7	167.63	285.7	-146.2	978.8	958.4	20.31	48.198	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-212 - Wellbore #1 - Plan #1 Extension (3-4-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+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	35.29	24.4	17.3	29.9				
100.0	100.0	99.0	99.0	0.1	0.1	35.29	24.4	17.3	29.9	29.7	0.22	133.708	
200.0	200.0	199.0	199.0	0.3	0.3	35.29	24.4	17.3	29.9	29.2	0.67	44.495	
300.0	300.0	299.0	299.0	0.6	0.6	35.29	24.4	17.3	29.9	28.8	1.12	26.662	
400.0	400.0	399.0	399.0	0.8	0.8	35.29	24.4	17.3	29.9	28.3	1.57	19.033	
500.0	500.0	499.0	499.0	1.0	1.0	35.29	24.4	17.3	29.9	27.9	2.02	14.799	
600.0	600.0	599.0	599.0	1.2	1.2	35.29	24.4	17.3	29.9	27.4	2.47	12.106	
700.0	700.0	699.0	699.0	1.5	1.5	35.29	24.4	17.3	29.9	27.0	2.92	10.242	
800.0	800.0	799.0	799.0	1.7	1.7	35.29	24.4	17.3	29.9	26.5	3.37	8.875	CC, ES
900.0	900.0	899.0	899.0	1.9	1.9	-156.75	24.4	17.3	31.1	27.3	3.79	8.202	
1,000.0	999.9	998.9	998.9	2.1	2.1	-159.29	24.4	17.3	34.7	30.5	4.20	8.281	
1,100.0	1,099.7	1,098.7	1,098.7	2.3	2.4	-162.50	24.4	17.3	40.9	36.3	4.61	8.882	
1,200.0	1,199.3	1,198.3	1,198.3	2.5	2.6	-165.64	24.4	17.3	49.7	44.7	5.03	9.896	
1,300.0	1,298.6	1,297.6	1,297.6	2.7	2.8	-168.33	24.4	17.3	61.2	55.7	5.45	11.234	
1,400.0	1,397.5	1,396.5	1,396.5	3.0	3.0	-170.51	24.4	17.3	75.3	69.4	5.87	12.828	
1,500.0	1,496.1	1,497.4	1,497.4	3.3	3.2	-172.38	23.3	16.7	90.9	84.6	6.27	14.488	
1,600.0	1,594.2	1,598.7	1,598.6	3.6	3.4	-174.15	19.9	14.8	106.5	99.8	6.65	16.014	
1,682.1	1,674.3	1,682.1	1,681.9	3.9	3.6	-175.55	15.3	12.3	119.4	112.4	6.97	17.134	
1,700.0	1,691.7	1,700.4	1,700.0	4.0	3.6	-175.85	14.0	11.6	122.2	115.1	7.04	17.351	
1,800.0	1,789.1	1,802.7	1,801.9	4.4	3.8	-177.49	5.8	7.2	136.3	128.8	7.46	18.258	
1,900.0	1,886.4	1,905.6	1,904.1	4.8	4.0	-179.11	-5.0	1.3	147.9	140.0	7.90	18.717	
2,000.0	1,983.7	2,005.4	2,003.0	5.3	4.3	179.36	-16.8	-5.1	158.0	149.7	8.35	18.932	
2,100.0	2,081.1	2,104.8	2,101.5	5.7	4.5	178.03	-28.5	-11.4	168.3	159.5	8.81	19.107	
2,200.0	2,178.4	2,204.2	2,200.0	6.2	4.8	176.85	-40.3	-17.8	178.7	169.4	9.28	19.253	
2,300.0	2,275.8	2,303.6	2,298.5	6.6	5.0	175.80	-52.1	-24.2	189.1	179.3	9.76	19.370	
2,400.0	2,373.1	2,403.0	2,397.0	7.1	5.3	174.86	-63.9	-30.6	199.5	189.3	10.25	19.465	
2,500.0	2,470.5	2,502.4	2,495.5	7.5	5.6	174.01	-75.6	-37.0	210.0	199.3	10.75	19.541	
2,600.0	2,567.8	2,601.8	2,594.0	8.0	5.9	173.25	-87.4	-43.4	220.6	209.3	11.25	19.600	
2,700.0	2,665.2	2,701.2	2,692.5	8.5	6.2	172.55	-99.2	-49.7	231.2	219.4	11.77	19.646	
2,800.0	2,762.5	2,800.6	2,791.0	9.0	6.5	171.92	-110.9	-56.1	241.8	229.5	12.29	19.681	
2,900.0	2,859.9	2,900.0	2,889.5	9.4	6.8	171.34	-122.7	-62.5	252.5	239.6	12.81	19.706	
3,000.0	2,957.2	2,999.4	2,987.9	9.9	7.1	170.80	-134.5	-68.9	263.1	249.8	13.34	19.723	
3,100.0	3,054.5	3,098.8	3,086.4	10.4	7.4	170.31	-146.3	-75.3	273.8	259.9	13.88	19.734	
3,200.0	3,151.9	3,198.2	3,184.9	10.9	7.7	169.85	-158.0	-81.7	284.5	270.1	14.41	19.740	
3,300.0	3,249.2	3,297.6	3,283.4	11.4	8.0	169.43	-169.8	-88.0	295.3	280.3	14.96	19.741	
3,400.0	3,346.6	3,397.0	3,381.9	11.8	8.4	169.04	-181.6	-94.4	306.0	290.5	15.50	19.739	
3,500.0	3,443.9	3,496.4	3,480.4	12.3	8.7	168.67	-193.4	-100.8	316.8	300.7	16.05	19.733	
3,600.0	3,541.3	3,595.8	3,578.9	12.8	9.0	168.33	-205.1	-107.2	327.5	310.9	16.60	19.725	
3,700.0	3,638.6	3,695.2	3,677.4	13.3	9.3	168.01	-216.9	-113.6	338.3	321.1	17.16	19.715	
3,800.0	3,736.0	3,794.6	3,775.9	13.8	9.7	167.71	-228.7	-120.0	349.1	331.4	17.72	19.704	
3,900.0	3,833.3	3,894.0	3,874.4	14.3	10.0	167.43	-240.4	-126.3	359.9	341.6	18.28	19.691	
4,000.0	3,930.6	3,993.4	3,972.9	14.8	10.3	167.16	-252.2	-132.7	370.7	351.9	18.84	19.677	
4,100.0	4,028.0	4,092.8	4,071.4	15.2	10.6	166.91	-264.0	-139.1	381.5	362.1	19.40	19.662	
4,200.0	4,125.3	4,192.2	4,169.9	15.7	11.0	166.67	-275.8	-145.5	392.3	372.4	19.97	19.647	
4,300.0	4,222.7	4,291.6	4,268.4	16.2	11.3	166.45	-287.5	-151.9	403.1	382.6	20.54	19.631	
4,400.0	4,320.0	4,391.0	4,366.9	16.7	11.6	166.24	-299.3	-158.3	414.0	392.9	21.11	19.615	
4,500.0	4,417.4	4,490.4	4,465.4	17.2	12.0	166.03	-311.1	-164.6	424.8	403.1	21.68	19.599	
4,600.0	4,514.7	4,589.8	4,563.8	17.7	12.3	165.84	-322.8	-171.0	435.7	413.4	22.25	19.582	
4,700.0	4,612.1	4,683.5	4,656.7	18.2	12.6	165.69	-333.7	-176.9	446.8	424.0	22.79	19.604	
4,800.0	4,709.4	4,770.8	4,743.5	18.7	12.8	165.71	-341.7	-181.2	460.2	437.0	23.27	19.777	
4,900.0	4,806.8	4,857.4	4,829.9	19.2	13.0	165.90	-347.4	-184.3	476.2	452.5	23.72	20.078	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-212 - Wellbore #1 - Plan #1 Extension (3-4-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.0	4,904.1	4,943.2	4,915.6	19.6	13.1	166.23	-350.7	-186.1	494.7	470.6	24.14	20.498	
5,100.0	5,001.4	5,028.0	5,000.4	20.1	13.3	166.69	-351.8	-186.7	515.8	491.2	24.53	21.023	
5,144.0	5,044.3	5,070.9	5,043.3	20.3	13.4	166.94	-351.8	-186.7	525.6	500.9	24.71	21.270	
5,200.0	5,098.9	5,125.5	5,097.9	20.6	13.4	167.29	-351.8	-186.7	537.6	512.6	24.95	21.543	
5,300.0	5,197.0	5,223.6	5,196.0	20.9	13.6	167.81	-351.8	-186.7	556.4	531.1	25.35	21.949	
5,400.0	5,295.8	5,322.4	5,294.8	21.2	13.8	168.20	-351.8	-186.7	571.9	546.2	25.73	22.231	
5,500.0	5,395.0	5,421.6	5,394.0	21.4	13.9	168.50	-351.8	-186.7	584.0	558.0	26.08	22.398	
5,600.0	5,494.6	5,521.2	5,493.6	21.6	14.1	168.71	-351.8	-186.7	592.8	566.4	26.40	22.456	
5,700.0	5,594.4	5,621.0	5,593.4	21.7	14.2	168.83	-351.8	-186.7	598.1	571.4	26.69	22.412	
5,805.6	5,700.0	5,726.6	5,699.0	21.9	14.4	-0.07	-351.8	-186.7	600.0	564.4	35.58	16.863	
5,900.0	5,794.4	5,821.0	5,793.4	22.0	14.6	-0.07	-351.8	-186.7	600.0	564.2	35.85	16.735	
5,941.5	5,835.9	5,862.5	5,834.9	22.0	14.6	0.00	-351.8	-186.0	600.0	564.0	35.97	16.680	
6,000.0	5,894.4	5,920.6	5,892.8	22.1	14.7	0.45	-351.8	-181.3	600.0	563.9	36.16	16.594	
6,063.1	5,957.6	5,982.2	5,953.6	22.2	14.8	1.39	-351.8	-171.4	600.2	563.8	36.39	16.494	
6,100.0	5,994.4	6,017.5	5,988.0	22.2	14.8	-87.93	-351.8	-163.6	600.4	572.7	27.71	21.667	
6,150.0	6,044.2	6,064.8	6,033.5	22.2	14.8	-87.01	-351.8	-150.7	600.9	573.1	27.74	21.656	
6,200.0	6,093.7	6,111.7	6,077.7	22.3	14.9	-86.12	-351.8	-135.1	601.4	573.7	27.77	21.656	
6,250.0	6,142.6	6,158.0	6,120.3	22.3	14.9	-85.24	-351.8	-117.1	602.2	574.4	27.80	21.659	
6,300.0	6,190.6	6,203.8	6,161.4	22.4	14.9	-84.39	-351.8	-96.7	603.0	575.2	27.84	21.659	
6,350.0	6,237.7	6,250.0	6,201.5	22.4	14.9	-83.55	-351.8	-73.7	603.9	576.0	27.90	21.648	
6,400.0	6,283.6	6,294.2	6,238.4	22.4	15.0	-82.76	-351.8	-49.5	605.0	577.0	27.99	21.617	
6,450.0	6,328.1	6,338.8	6,274.2	22.4	15.0	-82.00	-351.8	-23.0	606.1	578.0	28.11	21.558	
6,500.0	6,371.0	6,383.0	6,308.1	22.4	15.0	-81.27	-351.8	5.4	607.2	578.9	28.29	21.463	
6,550.0	6,412.1	6,426.8	6,340.1	22.5	15.0	-80.57	-351.8	35.4	608.4	579.9	28.53	21.326	
6,600.0	6,451.3	6,470.4	6,370.1	22.5	15.0	-79.91	-351.8	67.0	609.6	580.8	28.84	21.137	
6,650.0	6,488.4	6,513.7	6,398.1	22.5	15.1	-79.30	-351.8	100.0	610.8	581.6	29.22	20.900	
6,700.0	6,523.2	6,556.7	6,424.0	22.6	15.2	-78.73	-351.8	134.3	612.0	582.3	29.71	20.597	
6,750.0	6,555.5	6,600.0	6,448.1	22.6	15.4	-78.19	-351.8	170.3	613.1	582.8	30.30	20.232	
6,800.0	6,585.4	6,642.0	6,469.5	22.7	15.8	-77.71	-351.8	206.4	614.2	583.2	31.01	19.808	
6,850.0	6,612.5	6,684.4	6,489.0	22.8	16.2	-77.27	-351.8	244.0	615.2	583.4	31.83	19.328	
6,900.0	6,636.8	6,726.6	6,506.4	22.9	16.8	-76.88	-351.8	282.5	616.2	583.4	32.77	18.801	
6,950.0	6,658.2	6,768.6	6,521.5	23.1	17.4	-76.54	-351.8	321.7	617.0	583.2	33.83	18.237	
7,000.0	6,676.6	6,810.5	6,534.5	23.3	18.1	-76.24	-351.8	361.5	617.8	582.8	35.01	17.646	
7,050.0	6,692.0	6,850.0	6,544.6	23.6	18.8	-76.01	-351.8	399.7	618.4	582.2	36.26	17.056	
7,100.0	6,704.2	6,894.0	6,553.6	23.9	19.6	-75.80	-351.8	442.8	618.9	581.2	37.70	16.418	
7,150.0	6,713.1	6,935.7	6,559.8	24.4	20.4	-75.66	-351.8	483.9	619.3	580.1	39.20	15.801	
7,200.0	6,718.9	6,977.3	6,563.8	25.0	21.2	-75.56	-351.8	525.4	619.6	578.8	40.78	15.195	
7,250.0	6,721.4	7,018.9	6,565.5	25.7	22.1	-75.52	-351.8	566.9	619.7	577.3	42.43	14.606	
7,265.7	6,721.5	7,033.7	6,565.5	25.9	22.4	-75.52	-351.8	581.8	619.7	576.7	43.00	14.413	
7,269.3	6,721.5	7,035.1	6,565.5	26.0	22.4	-75.52	-351.8	583.1	619.7	576.6	43.10	14.379	
7,300.0	6,721.4	7,065.8	6,565.3	26.4	23.1	-75.51	-351.8	613.9	619.7	575.4	44.36	13.969	
7,400.0	6,721.1	7,165.8	6,564.7	28.2	25.3	-75.49	-351.8	713.9	619.8	571.1	48.64	12.742	
7,500.0	6,720.7	7,265.8	6,564.2	30.2	27.7	-75.46	-351.8	813.9	619.9	566.7	53.13	11.667	
7,600.0	6,720.4	7,365.8	6,563.6	32.3	30.1	-75.44	-351.8	913.9	619.9	562.1	57.78	10.729	
7,700.0	6,720.1	7,465.8	6,563.0	34.6	32.5	-75.42	-351.8	1,013.9	620.0	557.4	62.56	9.910	
7,800.0	6,719.7	7,565.8	6,562.4	37.0	35.1	-75.39	-351.8	1,113.9	620.0	552.6	67.44	9.194	
7,900.0	6,719.4	7,665.8	6,561.8	39.4	37.6	-75.37	-351.8	1,213.9	620.1	547.7	72.40	8.565	
8,000.0	6,719.1	7,765.8	6,561.2	41.9	40.2	-75.35	-351.8	1,313.9	620.2	542.8	77.43	8.010	
8,100.0	6,718.7	7,865.8	6,560.6	44.4	42.8	-75.32	-351.8	1,413.9	620.2	537.7	82.50	7.518	
8,200.0	6,718.4	7,965.8	6,560.0	46.9	45.5	-75.30	-351.8	1,513.9	620.3	532.7	87.62	7.079	
8,300.0	6,718.1	8,065.8	6,559.4	49.5	48.2	-75.28	-351.8	1,613.9	620.4	527.6	92.78	6.687	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-212 - Wellbore #1 - Plan #1 Extension (3-4-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,400.0	6,717.7	8,165.8	6,558.8	52.1	50.8	-75.25	-351.8	1,713.9	620.4	522.5	97.97	6.333	
8,500.0	6,717.4	8,265.8	6,558.2	54.7	53.5	-75.23	-351.8	1,813.9	620.5	517.3	103.18	6.014	
8,600.0	6,717.1	8,365.8	6,557.6	57.4	56.2	-75.21	-351.8	1,913.8	620.6	512.2	108.41	5.724	
8,700.0	6,716.7	8,465.8	6,557.0	60.1	58.9	-75.18	-351.8	2,013.8	620.6	507.0	113.66	5.460	
8,800.0	6,716.4	8,565.8	6,556.4	62.7	61.7	-75.16	-351.8	2,113.8	620.7	501.8	118.93	5.219	
8,900.0	6,716.1	8,665.8	6,555.8	65.4	64.4	-75.14	-351.8	2,213.8	620.8	496.6	124.21	4.998	
9,000.0	6,715.8	8,765.8	6,555.2	68.1	67.1	-75.11	-351.8	2,313.8	620.9	491.3	129.50	4.794	
9,100.0	6,715.4	8,865.8	6,554.7	70.8	69.9	-75.09	-351.8	2,413.8	620.9	486.1	134.80	4.606	
9,200.0	6,715.1	8,965.8	6,554.1	73.5	72.6	-75.07	-351.8	2,513.8	621.0	480.9	140.12	4.432	
9,300.0	6,714.8	9,065.8	6,553.5	76.3	75.4	-75.04	-351.8	2,613.8	621.1	475.6	145.43	4.270	
9,400.0	6,714.4	9,165.8	6,552.9	79.0	78.1	-75.02	-351.8	2,713.8	621.1	470.4	150.76	4.120	
9,500.0	6,714.1	9,265.8	6,552.3	81.7	80.9	-75.00	-351.8	2,813.8	621.2	465.1	156.09	3.980	
9,600.0	6,713.8	9,365.8	6,551.7	84.5	83.7	-74.97	-351.8	2,913.8	621.3	459.8	161.43	3.848	
9,700.0	6,713.4	9,465.8	6,551.1	87.2	86.4	-74.95	-351.8	3,013.8	621.3	454.6	166.77	3.726	
9,800.0	6,713.1	9,565.8	6,550.5	89.9	89.2	-74.93	-351.8	3,113.8	621.4	449.3	172.12	3.610	
9,900.0	6,712.8	9,665.8	6,549.9	92.7	92.0	-74.90	-351.8	3,213.8	621.5	444.0	177.47	3.502	
10,000.0	6,712.4	9,765.8	6,549.3	95.4	94.7	-74.88	-351.8	3,313.8	621.5	438.7	182.82	3.400	
10,100.0	6,712.1	9,865.8	6,548.7	98.2	97.5	-74.86	-351.8	3,413.8	621.6	433.4	188.18	3.303	
10,200.0	6,711.8	9,965.8	6,548.1	101.0	100.3	-74.83	-351.8	3,513.8	621.7	428.1	193.54	3.212	
10,300.0	6,711.4	10,065.8	6,547.5	103.7	103.1	-74.81	-351.8	3,613.8	621.7	422.8	198.90	3.126	
10,400.0	6,711.1	10,165.8	6,546.9	106.5	105.8	-74.79	-351.8	3,713.8	621.8	417.5	204.26	3.044	
10,500.0	6,710.8	10,265.8	6,546.3	109.3	108.6	-74.76	-351.8	3,813.8	621.9	412.2	209.63	2.967	
10,600.0	6,710.4	10,365.8	6,545.8	112.0	111.4	-74.74	-351.8	3,913.8	621.9	406.9	214.99	2.893	
10,700.0	6,710.1	10,465.8	6,545.2	114.8	114.2	-74.72	-351.8	4,013.8	622.0	401.6	220.36	2.823	
10,800.0	6,709.8	10,565.8	6,544.6	117.6	117.0	-74.69	-351.8	4,113.8	622.1	396.3	225.73	2.756	
10,900.0	6,709.5	10,665.8	6,544.0	120.3	119.8	-74.67	-351.8	4,213.8	622.1	391.0	231.10	2.692	
11,000.0	6,709.1	10,765.8	6,543.4	123.1	122.6	-74.65	-351.8	4,313.8	622.2	385.7	236.47	2.631	
11,100.0	6,708.8	10,865.8	6,542.8	125.9	125.3	-74.62	-351.8	4,413.8	622.3	380.4	241.84	2.573	
11,200.0	6,708.5	10,965.8	6,542.2	128.7	128.1	-74.60	-351.8	4,513.8	622.4	375.1	247.21	2.517	
11,300.0	6,708.1	11,065.8	6,541.6	131.5	130.9	-74.58	-351.8	4,613.8	622.4	369.8	252.59	2.464	
11,400.0	6,707.8	11,165.8	6,541.0	134.2	133.7	-74.55	-351.8	4,713.8	622.5	364.5	257.96	2.413	
11,500.0	6,707.5	11,265.8	6,540.4	137.0	136.5	-74.53	-351.8	4,813.8	622.6	359.2	263.33	2.364	
11,600.0	6,707.1	11,365.8	6,539.8	139.8	139.3	-74.51	-351.8	4,913.8	622.6	353.9	268.71	2.317	
11,700.0	6,706.8	11,465.8	6,539.2	142.6	142.1	-74.48	-351.8	5,013.8	622.7	348.6	274.08	2.272	
11,800.0	6,706.5	11,565.8	6,538.6	145.4	144.9	-74.46	-351.8	5,113.8	622.8	343.3	279.45	2.229	
11,900.0	6,706.1	11,665.8	6,538.0	148.2	147.7	-74.44	-351.8	5,213.8	622.8	338.0	284.83	2.187	
12,000.0	6,705.8	11,765.8	6,537.4	151.0	150.5	-74.41	-351.8	5,313.8	622.9	332.7	290.20	2.147	
12,100.0	6,705.5	11,865.8	6,536.9	153.7	153.3	-74.39	-351.8	5,413.8	623.0	327.4	295.57	2.108	
12,200.0	6,705.1	11,965.8	6,536.3	156.5	156.1	-74.37	-351.8	5,513.8	623.1	322.1	300.94	2.070	
12,300.0	6,704.8	12,065.8	6,535.7	159.3	158.9	-74.35	-351.8	5,613.8	623.1	316.8	306.32	2.034	
12,400.0	6,704.5	12,165.8	6,535.1	162.1	161.7	-74.32	-351.8	5,713.8	623.2	311.5	311.69	1.999	
12,500.0	6,704.1	12,265.8	6,534.5	164.9	164.5	-74.30	-351.8	5,813.8	623.3	306.2	317.06	1.966	
12,600.0	6,703.8	12,365.8	6,533.9	167.7	167.3	-74.28	-351.8	5,913.8	623.3	300.9	322.43	1.933	
12,700.0	6,703.5	12,465.8	6,533.3	170.5	170.1	-74.25	-351.8	6,013.8	623.4	295.6	327.80	1.902	
12,800.0	6,703.2	12,565.8	6,532.7	173.3	172.9	-74.23	-351.8	6,113.8	623.5	290.3	333.17	1.871	
12,900.0	6,702.8	12,665.8	6,532.1	176.1	175.7	-74.21	-351.8	6,213.8	623.6	285.0	338.54	1.842	
13,000.0	6,702.5	12,765.8	6,531.5	178.9	178.5	-74.18	-351.8	6,313.8	623.6	279.7	343.91	1.813	
13,100.0	6,702.2	12,865.8	6,530.9	181.7	181.3	-74.16	-351.8	6,413.8	623.7	274.4	349.28	1.786	
13,200.0	6,701.8	12,965.8	6,530.3	184.5	184.1	-74.14	-351.8	6,513.8	623.8	269.1	354.65	1.759	
13,300.0	6,701.5	13,065.8	6,529.7	187.3	186.9	-74.11	-351.8	6,613.8	623.8	263.8	360.02	1.733	
13,400.0	6,701.2	13,165.8	6,529.1	190.1	189.7	-74.09	-351.8	6,713.7	623.9	258.5	365.39	1.708	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-212 - Wellbore #1 - Plan #1 Extension (3-4-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,500.0	6,700.8	13,265.8	6,528.5	192.9	192.5	-74.07	-351.8	6,813.7	624.0	253.2	370.75	1.683	
13,600.0	6,700.5	13,365.8	6,528.0	195.7	195.3	-74.04	-351.8	6,913.7	624.1	247.9	376.12	1.659	
13,700.0	6,700.2	13,465.8	6,527.4	198.4	198.1	-74.02	-351.8	7,013.7	624.1	242.6	381.48	1.636	
13,800.0	6,699.8	13,565.8	6,526.8	201.2	200.9	-74.00	-351.8	7,113.7	624.2	237.4	386.85	1.614	
13,900.0	6,699.5	13,665.8	6,526.2	204.0	203.7	-73.98	-351.8	7,213.7	624.3	232.1	392.21	1.592	
14,000.0	6,699.2	13,765.8	6,525.6	206.8	206.5	-73.95	-351.8	7,313.7	624.3	226.8	397.57	1.570	
14,100.0	6,698.8	13,865.8	6,525.0	209.6	209.3	-73.93	-351.8	7,413.7	624.4	221.5	402.93	1.550	
14,200.0	6,698.5	13,965.8	6,524.4	212.4	212.1	-73.91	-351.8	7,513.7	624.5	216.2	408.29	1.530	
14,300.0	6,698.2	14,065.8	6,523.8	215.2	214.9	-73.88	-351.8	7,613.7	624.6	210.9	413.65	1.510	
14,400.0	6,697.8	14,165.8	6,523.2	218.0	217.7	-73.86	-351.8	7,713.7	624.6	205.6	419.01	1.491	Level 3
14,500.0	6,697.5	14,265.8	6,522.6	220.8	220.5	-73.84	-351.8	7,813.7	624.7	200.3	424.37	1.472	Level 3
14,600.0	6,697.2	14,365.8	6,522.0	223.6	223.3	-73.81	-351.8	7,913.7	624.8	195.1	429.73	1.454	Level 3
14,700.0	6,696.8	14,465.8	6,521.4	226.4	226.1	-73.79	-351.8	8,013.7	624.9	189.8	435.08	1.436	Level 3
14,800.0	6,696.5	14,565.8	6,520.8	229.2	228.9	-73.77	-351.8	8,113.7	624.9	184.5	440.44	1.419	Level 3
14,900.0	6,696.2	14,665.8	6,520.2	232.0	231.7	-73.74	-351.8	8,213.7	625.0	179.2	445.79	1.402	Level 3
15,000.0	6,695.9	14,765.8	6,519.6	234.8	234.5	-73.72	-351.8	8,313.7	625.1	173.9	451.15	1.386	Level 3
15,100.0	6,695.5	14,865.8	6,519.1	237.6	237.3	-73.70	-351.8	8,413.7	625.1	168.6	456.50	1.369	Level 3
15,200.0	6,695.2	14,965.8	6,518.5	240.4	240.1	-73.68	-351.8	8,513.7	625.2	163.4	461.85	1.354	Level 3
15,300.0	6,694.9	15,065.8	6,517.9	243.2	242.9	-73.65	-351.8	8,613.7	625.3	158.1	467.20	1.338	Level 3
15,400.0	6,694.5	15,165.8	6,517.3	246.0	245.7	-73.63	-351.8	8,713.7	625.4	152.8	472.55	1.323	Level 3
15,500.0	6,694.2	15,265.8	6,516.7	248.9	248.5	-73.61	-351.8	8,813.7	625.4	147.5	477.90	1.309	Level 3
15,600.0	6,693.9	15,365.8	6,516.1	251.7	251.3	-73.58	-351.8	8,913.7	625.5	142.3	483.25	1.294	Level 3
15,700.0	6,693.5	15,465.8	6,515.5	254.5	254.1	-73.56	-351.8	9,013.7	625.6	137.0	488.60	1.280	Level 3
15,800.0	6,693.2	15,565.8	6,514.9	257.3	257.0	-73.54	-351.8	9,113.7	625.7	131.7	493.94	1.267	Level 3
15,900.0	6,692.9	15,665.8	6,514.3	260.1	259.8	-73.51	-351.8	9,213.7	625.7	126.5	499.29	1.253	Level 3
16,000.0	6,692.5	15,765.8	6,513.7	262.9	262.6	-73.49	-351.8	9,313.7	625.8	121.2	504.63	1.240	Level 2
16,100.0	6,692.2	15,865.8	6,513.1	265.7	265.4	-73.47	-351.8	9,413.7	625.9	115.9	509.97	1.227	Level 2
16,200.0	6,691.9	15,965.8	6,512.5	268.5	268.2	-73.45	-351.8	9,513.7	626.0	110.6	515.31	1.215	Level 2
16,300.0	6,691.5	16,065.8	6,511.9	271.3	271.0	-73.42	-351.8	9,613.7	626.0	105.4	520.65	1.202	Level 2
16,400.0	6,691.2	16,165.8	6,511.3	274.1	273.8	-73.40	-351.8	9,713.7	626.1	100.1	525.99	1.190	Level 2
16,431.8	6,691.1	16,197.6	6,511.1	275.0	274.7	-73.39	-351.8	9,745.5	626.1	98.4	527.69	1.187	Level 2
16,464.1	6,691.0	16,222.6	6,511.0	275.9	275.4	-73.39	-351.8	9,770.5	626.2	97.0	529.22	1.183	Level 2, SF

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-302 - Wellbore #1 - Plan #1 Extension (3-4-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+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	34.89	12.4	8.6	15.1	15.1	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	34.89	12.4	8.6	15.1	14.9	0.22	67.184	
200.0	200.0	200.0	200.0	0.3	0.3	34.89	12.4	8.6	15.1	14.4	0.67	22.395	
300.0	300.0	300.0	300.0	0.6	0.6	34.89	12.4	8.6	15.1	14.0	1.12	13.437	
400.0	400.0	400.0	400.0	0.8	0.8	34.89	12.4	8.6	15.1	13.5	1.57	9.598	
500.0	500.0	500.0	500.0	1.0	1.0	34.89	12.4	8.6	15.1	13.1	2.02	7.465	
600.0	600.0	600.0	600.0	1.2	1.2	34.89	12.4	8.6	15.1	12.6	2.47	6.108	
700.0	700.0	700.0	700.0	1.5	1.5	34.89	12.4	8.6	15.1	12.2	2.92	5.168	
800.0	800.0	800.0	800.0	1.7	1.7	34.89	12.4	8.6	15.1	11.7	3.37	4.479	CC
900.0	900.0	900.0	900.0	1.9	1.9	-158.02	12.4	8.6	16.3	12.5	3.79	4.298	
1,000.0	999.9	999.9	999.9	2.1	2.1	-162.22	12.4	8.6	20.0	15.8	4.20	4.764	
1,100.0	1,099.7	1,100.4	1,100.3	2.3	2.3	-166.16	11.1	8.3	25.0	20.4	4.58	5.458	
1,200.0	1,199.3	1,200.9	1,200.8	2.5	2.5	-169.26	7.3	7.1	30.0	25.1	4.95	6.070	
1,300.0	1,298.6	1,301.7	1,301.3	2.7	2.7	-171.88	1.0	5.2	35.1	29.8	5.33	6.586	
1,400.0	1,397.5	1,402.5	1,401.8	3.0	2.9	-174.20	-7.9	2.6	40.2	34.5	5.72	7.022	
1,500.0	1,496.1	1,503.5	1,502.0	3.3	3.1	-176.32	-19.4	-0.8	45.3	39.2	6.12	7.394	
1,600.0	1,594.2	1,604.6	1,602.1	3.6	3.4	-178.30	-33.4	-5.0	50.4	43.9	6.54	7.709	
1,682.1	1,674.3	1,687.7	1,684.0	3.9	3.6	-179.85	-46.8	-9.0	54.6	47.7	6.89	7.932	
1,700.0	1,691.7	1,705.8	1,701.8	4.0	3.7	179.82	-49.9	-9.9	55.5	48.6	6.97	7.968	
1,800.0	1,789.1	1,805.6	1,800.0	4.4	4.0	178.17	-67.3	-15.1	60.4	53.0	7.43	8.134	
1,900.0	1,886.4	1,905.5	1,898.2	4.8	4.3	176.76	-84.8	-20.3	65.4	57.5	7.90	8.271	
2,000.0	1,983.7	2,005.4	1,996.4	5.3	4.7	175.55	-102.2	-25.5	70.3	61.9	8.39	8.385	
2,100.0	2,081.1	2,105.2	2,094.6	5.7	5.0	174.51	-119.6	-30.7	75.3	66.4	8.88	8.479	
2,200.0	2,178.4	2,205.1	2,192.7	6.2	5.4	173.59	-137.0	-35.9	80.3	71.0	9.39	8.557	
2,300.0	2,275.8	2,305.0	2,290.9	6.6	5.8	172.78	-154.5	-41.1	85.4	75.5	9.90	8.621	
2,400.0	2,373.1	2,404.8	2,389.1	7.1	6.1	172.07	-171.9	-46.3	90.4	80.0	10.43	8.674	
2,500.0	2,470.5	2,504.7	2,487.3	7.5	6.5	171.42	-189.3	-51.5	95.5	84.5	10.96	8.717	
2,600.0	2,567.8	2,604.6	2,585.5	8.0	6.9	170.85	-206.8	-56.7	100.6	89.1	11.49	8.753	
2,700.0	2,665.2	2,704.4	2,683.7	8.5	7.3	170.32	-224.2	-61.9	105.7	93.6	12.03	8.782	
2,800.0	2,762.5	2,804.3	2,781.9	9.0	7.7	169.85	-241.6	-67.1	110.8	98.2	12.58	8.807	
2,900.0	2,859.9	2,904.2	2,880.1	9.4	8.1	169.42	-259.0	-72.3	115.9	102.7	13.13	8.827	
3,000.0	2,957.2	3,004.0	2,978.3	9.9	8.5	169.02	-276.5	-77.5	121.0	107.3	13.68	8.843	
3,100.0	3,054.5	3,103.9	3,076.5	10.4	8.9	168.66	-293.9	-82.7	126.1	111.8	14.24	8.856	
3,200.0	3,151.9	3,203.8	3,174.7	10.9	9.3	168.32	-311.3	-87.9	131.2	116.4	14.80	8.866	
3,300.0	3,249.2	3,303.6	3,272.9	11.4	9.7	168.01	-328.7	-93.0	136.3	121.0	15.36	8.874	
3,400.0	3,346.6	3,403.5	3,371.1	11.8	10.1	167.73	-346.2	-98.2	141.4	125.5	15.93	8.881	
3,500.0	3,443.9	3,503.4	3,469.3	12.3	10.5	167.46	-363.6	-103.4	146.6	130.1	16.49	8.886	
3,600.0	3,541.3	3,603.2	3,567.5	12.8	10.9	167.21	-381.0	-108.6	151.7	134.6	17.06	8.890	
3,700.0	3,638.6	3,703.1	3,665.7	13.3	11.3	166.98	-398.4	-113.8	156.8	139.2	17.64	8.892	
3,800.0	3,736.0	3,803.0	3,763.9	13.8	11.7	166.76	-415.9	-119.0	162.0	143.8	18.21	8.894	
3,900.0	3,833.3	3,902.8	3,862.1	14.3	12.1	166.55	-433.3	-124.2	167.1	148.3	18.79	8.895	
4,000.0	3,930.6	4,002.7	3,960.3	14.8	12.5	166.36	-450.7	-129.4	172.2	152.9	19.36	8.895	
4,100.0	4,028.0	4,102.6	4,058.5	15.2	12.9	166.18	-468.1	-134.6	177.4	157.4	19.94	8.895	
4,200.0	4,125.3	4,202.4	4,156.7	15.7	13.3	166.01	-485.6	-139.8	182.5	162.0	20.52	8.894	
4,300.0	4,222.7	4,302.3	4,254.9	16.2	13.7	165.85	-503.0	-145.0	187.7	166.6	21.10	8.893	
4,400.0	4,320.0	4,402.2	4,353.1	16.7	14.2	165.69	-520.4	-150.2	192.8	171.1	21.69	8.892	
4,500.0	4,417.4	4,502.0	4,451.3	17.2	14.6	165.55	-537.9	-155.4	198.0	175.7	22.27	8.890	
4,600.0	4,514.7	4,601.9	4,549.5	17.7	15.0	165.41	-555.3	-160.6	203.1	180.3	22.85	8.888	
4,700.0	4,612.1	4,701.8	4,647.7	18.2	15.4	165.28	-572.7	-165.8	208.3	184.8	23.44	8.886	
4,800.0	4,709.4	4,801.6	4,745.9	18.7	15.8	165.15	-590.1	-171.0	213.4	189.4	24.02	8.883	
4,900.0	4,806.8	4,897.0	4,839.8	19.2	16.1	165.10	-606.1	-175.7	219.2	194.7	24.57	8.922	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-302 - Wellbore #1 - Plan #1 Extension (3-4-1

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.0	4,904.1	4,989.8	4,931.6	19.6	16.4	165.31	-619.0	-179.6	228.0	202.9	25.04	9.103	
5,100.0	5,001.4	5,082.1	5,023.3	20.1	16.6	165.74	-629.0	-182.5	239.7	214.2	25.46	9.413	
5,144.0	5,044.3	5,122.4	5,063.4	20.3	16.7	165.99	-632.4	-183.6	245.8	220.2	25.64	9.588	
5,200.0	5,098.9	5,173.6	5,114.5	20.6	16.8	166.37	-636.0	-184.6	253.9	228.1	25.86	9.820	
5,300.0	5,197.0	5,264.7	5,205.4	20.9	16.9	167.01	-640.3	-185.9	268.1	241.9	26.19	10.237	
5,400.0	5,295.8	5,355.4	5,296.1	21.2	17.1	167.63	-641.8	-186.4	282.0	255.5	26.49	10.644	
5,500.0	5,395.0	5,454.2	5,395.0	21.4	17.2	168.20	-641.8	-186.4	294.1	267.3	26.76	10.987	
5,600.0	5,494.6	5,553.8	5,494.6	21.6	17.3	168.58	-641.8	-186.4	302.8	275.8	27.02	11.207	
5,700.0	5,594.4	5,653.7	5,594.4	21.7	17.5	168.80	-641.8	-186.4	308.1	280.9	27.25	11.305	
5,805.6	5,700.0	5,759.2	5,700.0	21.9	17.6	-0.07	-641.8	-186.4	310.0	271.1	38.89	7.972	
5,900.0	5,794.4	5,853.7	5,794.4	22.0	17.7	-0.07	-641.8	-186.4	310.0	270.9	39.12	7.925	
6,000.0	5,894.4	5,953.7	5,894.4	22.1	17.8	-0.03	-641.8	-186.2	310.0	270.7	39.36	7.877	
6,008.2	5,902.7	5,961.9	5,902.7	22.1	17.9	0.01	-641.8	-186.0	310.0	270.6	39.38	7.872	
6,063.1	5,957.6	6,016.5	5,957.2	22.2	17.9	0.70	-641.8	-182.2	310.0	270.5	39.57	7.835	
6,100.0	5,994.4	6,052.9	5,993.2	22.2	18.0	-88.60	-641.8	-177.6	310.1	281.8	28.30	10.959	
6,150.0	6,044.2	6,102.0	6,041.5	22.2	18.0	-87.65	-641.8	-168.6	310.3	282.0	28.32	10.956	
6,200.0	6,093.7	6,150.8	6,088.7	22.3	18.0	-86.72	-641.8	-156.6	310.5	282.2	28.33	10.959	
6,250.0	6,142.6	6,199.2	6,134.9	22.3	18.1	-85.80	-641.8	-141.7	310.9	282.5	28.35	10.967	
6,300.0	6,190.6	6,247.4	6,179.7	22.4	18.1	-84.91	-641.8	-124.1	311.3	282.9	28.36	10.974	
6,350.0	6,237.7	6,295.3	6,223.0	22.4	18.1	-84.04	-641.8	-103.8	311.7	283.3	28.39	10.978	
6,400.0	6,283.6	6,342.9	6,264.8	22.4	18.1	-83.21	-641.8	-81.0	312.2	283.8	28.45	10.974	
6,450.0	6,328.1	6,390.3	6,304.9	22.4	18.1	-82.40	-641.8	-55.7	312.8	284.2	28.54	10.959	
6,500.0	6,371.0	6,437.4	6,343.1	22.4	18.2	-81.63	-641.8	-28.2	313.4	284.7	28.68	10.927	
6,550.0	6,412.1	6,484.3	6,379.4	22.5	18.2	-80.89	-641.8	1.5	314.0	285.1	28.88	10.874	
6,600.0	6,451.3	6,531.0	6,413.6	22.5	18.2	-80.20	-641.8	33.3	314.6	285.5	29.14	10.796	
6,650.0	6,488.4	6,577.5	6,445.7	22.5	18.3	-79.55	-641.8	66.9	315.3	285.8	29.48	10.695	
6,700.0	6,523.2	6,623.8	6,475.6	22.6	18.3	-78.94	-641.8	102.2	315.9	286.0	29.93	10.556	
6,750.0	6,555.5	6,669.9	6,503.2	22.6	18.4	-78.38	-641.8	139.2	316.5	286.1	30.48	10.386	
6,800.0	6,585.4	6,715.9	6,528.5	22.7	18.5	-77.86	-641.8	177.6	317.1	286.0	31.14	10.184	
6,850.0	6,612.5	6,761.7	6,551.3	22.8	18.6	-77.40	-641.8	217.4	317.7	285.8	31.92	9.952	
6,900.0	6,636.8	6,807.5	6,571.6	22.9	18.8	-76.98	-641.8	258.3	318.2	285.4	32.83	9.692	
6,950.0	6,658.2	6,853.1	6,589.4	23.1	19.1	-76.62	-641.8	300.3	318.7	284.8	33.87	9.408	
7,000.0	6,676.6	6,900.0	6,605.1	23.3	19.6	-76.30	-641.8	344.5	319.1	284.0	35.06	9.102	
7,050.0	6,692.0	6,944.0	6,617.3	23.6	20.1	-76.04	-641.8	386.8	319.5	283.1	36.33	8.793	
7,100.0	6,704.2	6,989.4	6,627.4	23.9	20.7	-75.84	-641.8	431.0	319.7	282.0	37.73	8.474	
7,150.0	6,713.1	7,034.7	6,634.7	24.4	21.5	-75.68	-641.8	475.8	320.0	280.7	39.24	8.153	
7,200.0	6,718.9	7,080.0	6,639.4	25.0	22.3	-75.58	-641.8	520.8	320.1	279.3	40.84	7.837	
7,250.0	6,721.4	7,125.3	6,641.5	25.7	23.1	-75.54	-641.8	566.0	320.2	277.6	42.52	7.529	
7,265.7	6,721.5	7,139.5	6,641.5	25.9	23.4	-75.54	-641.8	580.2	320.2	277.1	43.06	7.435	
7,300.0	6,721.4	7,173.4	6,641.3	26.4	24.1	-75.51	-641.8	614.2	320.2	275.7	44.45	7.203	
7,400.0	6,721.1	7,273.4	6,640.5	28.2	26.2	-75.44	-641.8	714.2	320.3	271.6	48.70	6.578	
7,500.0	6,720.7	7,373.4	6,639.7	30.2	28.5	-75.36	-641.8	814.2	320.4	267.3	53.15	6.029	
7,600.0	6,720.4	7,473.4	6,639.0	32.3	30.8	-75.29	-641.8	914.2	320.5	262.8	57.77	5.549	
7,700.0	6,720.1	7,573.4	6,638.2	34.6	33.2	-75.21	-641.8	1,014.2	320.6	258.1	62.51	5.129	
7,800.0	6,719.7	7,673.4	6,637.4	37.0	35.7	-75.13	-641.8	1,114.2	320.8	253.4	67.36	4.762	
7,900.0	6,719.4	7,773.4	6,636.7	39.4	38.2	-75.06	-641.8	1,214.2	320.9	248.6	72.28	4.439	
8,000.0	6,719.1	7,873.4	6,635.9	41.9	40.8	-74.98	-641.8	1,314.2	321.0	243.7	77.27	4.154	
8,100.0	6,718.7	7,973.4	6,635.1	44.4	43.4	-74.91	-641.8	1,414.2	321.1	238.8	82.31	3.901	
8,200.0	6,718.4	8,073.4	6,634.4	46.9	46.0	-74.83	-641.8	1,514.1	321.2	233.8	87.39	3.675	
8,300.0	6,718.1	8,173.4	6,633.6	49.5	48.6	-74.76	-641.8	1,614.1	321.3	228.8	92.51	3.473	
8,400.0	6,717.7	8,273.4	6,632.8	52.1	51.3	-74.68	-641.8	1,714.1	321.4	223.8	97.65	3.292	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-302 - Wellbore #1 - Plan #1 Extension (3-4-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,500.0	6,717.4	8,373.4	6,632.1	54.7	53.9	-74.61	-641.8	1,814.1	321.6	218.7	102.82	3.127	
8,600.0	6,717.1	8,473.4	6,631.3	57.4	56.6	-74.53	-641.8	1,914.1	321.7	213.7	108.01	2.978	
8,700.0	6,716.7	8,573.4	6,630.5	60.1	59.3	-74.46	-641.8	2,014.1	321.8	208.6	113.21	2.842	
8,800.0	6,716.4	8,673.4	6,629.8	62.7	62.0	-74.38	-641.8	2,114.1	321.9	203.5	118.43	2.718	
8,900.0	6,716.1	8,773.4	6,629.0	65.4	64.7	-74.31	-641.8	2,214.1	322.0	198.4	123.65	2.604	
9,000.0	6,715.8	8,873.4	6,628.2	68.1	67.5	-74.23	-641.8	2,314.1	322.1	193.3	128.89	2.499	
9,100.0	6,715.4	8,973.4	6,627.5	70.8	70.2	-74.16	-641.8	2,414.1	322.3	188.1	134.13	2.403	
9,200.0	6,715.1	9,073.4	6,626.7	73.5	72.9	-74.09	-641.8	2,514.1	322.4	183.0	139.38	2.313	
9,300.0	6,714.8	9,173.4	6,625.9	76.3	75.7	-74.01	-641.8	2,614.1	322.5	177.9	144.64	2.230	
9,400.0	6,714.4	9,273.4	6,625.2	79.0	78.4	-73.94	-641.8	2,714.1	322.6	172.7	149.90	2.152	
9,500.0	6,714.1	9,373.4	6,624.4	81.7	81.2	-73.86	-641.8	2,814.1	322.7	167.6	155.16	2.080	
9,600.0	6,713.8	9,473.4	6,623.6	84.5	83.9	-73.79	-641.8	2,914.1	322.9	162.4	160.43	2.012	
9,700.0	6,713.4	9,573.4	6,622.9	87.2	86.7	-73.71	-641.8	3,014.1	323.0	157.3	165.70	1.949	
9,800.0	6,713.1	9,673.4	6,622.1	89.9	89.4	-73.64	-641.8	3,114.1	323.1	152.1	170.97	1.890	
9,900.0	6,712.8	9,773.4	6,621.3	92.7	92.2	-73.56	-641.8	3,214.1	323.2	147.0	176.24	1.834	
10,000.0	6,712.4	9,873.4	6,620.5	95.4	95.0	-73.49	-641.8	3,314.1	323.4	141.8	181.51	1.781	
10,100.0	6,712.1	9,973.4	6,619.8	98.2	97.7	-73.42	-641.8	3,414.1	323.5	136.7	186.78	1.732	
10,200.0	6,711.8	10,073.4	6,619.0	101.0	100.5	-73.34	-641.8	3,514.1	323.6	131.5	192.05	1.685	
10,300.0	6,711.4	10,173.4	6,618.2	103.7	103.3	-73.27	-641.8	3,614.1	323.7	126.4	197.32	1.641	
10,400.0	6,711.1	10,273.4	6,617.5	106.5	106.1	-73.19	-641.8	3,714.1	323.9	121.3	202.59	1.599	
10,500.0	6,710.8	10,373.4	6,616.7	109.3	108.8	-73.12	-641.8	3,814.1	324.0	116.1	207.86	1.559	
10,600.0	6,710.4	10,473.4	6,615.9	112.0	111.6	-73.05	-641.8	3,914.1	324.1	111.0	213.13	1.521	
10,700.0	6,710.1	10,573.4	6,615.2	114.8	114.4	-72.97	-641.8	4,014.0	324.2	105.8	218.39	1.485	Level 3
10,800.0	6,709.8	10,673.4	6,614.4	117.6	117.2	-72.90	-641.8	4,114.0	324.4	100.7	223.66	1.450	Level 3
10,900.0	6,709.5	10,773.4	6,613.6	120.3	120.0	-72.83	-641.8	4,214.0	324.5	95.6	228.92	1.417	Level 3
11,000.0	6,709.1	10,873.4	6,612.9	123.1	122.7	-72.75	-641.8	4,314.0	324.6	90.4	234.18	1.386	Level 3
11,100.0	6,708.8	10,973.4	6,612.1	125.9	125.5	-72.68	-641.8	4,414.0	324.7	85.3	239.43	1.356	Level 3
11,200.0	6,708.5	11,073.4	6,611.3	128.7	128.3	-72.61	-641.8	4,514.0	324.9	80.2	244.69	1.328	Level 3
11,300.0	6,708.1	11,173.4	6,610.6	131.5	131.1	-72.53	-641.8	4,614.0	325.0	75.1	249.94	1.300	Level 3
11,400.0	6,707.8	11,273.4	6,609.8	134.2	133.9	-72.46	-641.8	4,714.0	325.1	70.0	255.19	1.274	Level 3
11,500.0	6,707.5	11,373.4	6,609.0	137.0	136.7	-72.39	-641.8	4,814.0	325.3	64.8	260.44	1.249	Level 2
11,600.0	6,707.1	11,473.4	6,608.3	139.8	139.5	-72.31	-641.8	4,914.0	325.4	59.7	265.68	1.225	Level 2
11,700.0	6,706.8	11,573.4	6,607.5	142.6	142.3	-72.24	-641.8	5,014.0	325.5	54.6	270.92	1.202	Level 2
11,800.0	6,706.5	11,673.4	6,606.7	145.4	145.1	-72.17	-641.8	5,114.0	325.7	49.5	276.16	1.179	Level 2
11,900.0	6,706.1	11,773.4	6,606.0	148.2	147.8	-72.09	-641.8	5,214.0	325.8	44.4	281.39	1.158	Level 2
12,000.0	6,705.8	11,873.4	6,605.2	151.0	150.6	-72.02	-641.8	5,314.0	325.9	39.3	286.62	1.137	Level 2
12,100.0	6,705.5	11,973.4	6,604.4	153.7	153.4	-71.95	-641.8	5,414.0	326.1	34.2	291.85	1.117	Level 2
12,200.0	6,705.1	12,073.4	6,603.7	156.5	156.2	-71.87	-641.8	5,514.0	326.2	29.1	297.07	1.098	Level 2
12,300.0	6,704.8	12,173.4	6,602.9	159.3	159.0	-71.80	-641.8	5,614.0	326.3	24.1	302.29	1.080	Level 2
12,400.0	6,704.5	12,273.4	6,602.1	162.1	161.8	-71.73	-641.8	5,714.0	326.5	19.0	307.51	1.062	Level 2
12,500.0	6,704.1	12,373.4	6,601.4	164.9	164.6	-71.66	-641.8	5,814.0	326.6	13.9	312.72	1.044	Level 2
12,600.0	6,703.8	12,473.4	6,600.6	167.7	167.4	-71.58	-641.8	5,914.0	326.8	8.8	317.93	1.028	Level 2
12,700.0	6,703.5	12,573.4	6,599.8	170.5	170.2	-71.51	-641.8	6,014.0	326.9	3.8	323.14	1.012	Level 2
12,800.0	6,703.2	12,673.4	6,599.0	173.3	173.0	-71.44	-641.8	6,114.0	327.0	-1.3	328.34	0.996	Level 1
12,900.0	6,702.8	12,773.4	6,598.3	176.1	175.8	-71.37	-641.8	6,214.0	327.2	-6.4	333.54	0.981	Level 1
13,000.0	6,702.5	12,873.4	6,597.5	178.9	178.6	-71.29	-641.8	6,314.0	327.3	-11.4	338.73	0.966	Level 1
13,100.0	6,702.2	12,973.4	6,596.7	181.7	181.4	-71.22	-641.8	6,414.0	327.5	-16.5	343.92	0.952	Level 1
13,200.0	6,701.8	13,073.4	6,596.0	184.5	184.2	-71.15	-641.8	6,514.0	327.6	-21.5	349.11	0.938	Level 1
13,300.0	6,701.5	13,173.4	6,595.2	187.3	187.0	-71.08	-641.8	6,613.9	327.7	-26.6	354.29	0.925	Level 1
13,400.0	6,701.2	13,273.4	6,594.4	190.1	189.8	-71.00	-641.8	6,713.9	327.9	-31.6	359.47	0.912	Level 1
13,500.0	6,700.8	13,373.4	6,593.7	192.9	192.6	-70.93	-641.8	6,813.9	328.0	-36.6	364.64	0.900	Level 1

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-302 - Wellbore #1 - Plan #1 Extension (3-4-1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,600.0	6,700.5	13,473.4	6,592.9	195.7	195.4	-70.86	-641.8	6,913.9	328.2	-41.6	369.81	0.887	Level 1
13,700.0	6,700.2	13,573.4	6,592.1	198.4	198.2	-70.79	-641.8	7,013.9	328.3	-46.7	374.98	0.876	Level 1
13,800.0	6,699.8	13,673.4	6,591.4	201.2	201.0	-70.72	-641.8	7,113.9	328.5	-51.7	380.14	0.864	Level 1
13,900.0	6,699.5	13,773.4	6,590.6	204.0	203.8	-70.64	-641.8	7,213.9	328.6	-56.7	385.30	0.853	Level 1
14,000.0	6,699.2	13,873.4	6,589.8	206.8	206.6	-70.57	-641.8	7,313.9	328.7	-61.7	390.45	0.842	Level 1
14,100.0	6,698.8	13,973.4	6,589.1	209.6	209.4	-70.50	-641.8	7,413.9	328.9	-66.7	395.60	0.831	Level 1
14,200.0	6,698.5	14,073.4	6,588.3	212.4	212.2	-70.43	-641.8	7,513.9	329.0	-71.7	400.74	0.821	Level 1
14,300.0	6,698.2	14,173.4	6,587.5	215.2	215.0	-70.36	-641.8	7,613.9	329.2	-76.7	405.88	0.811	Level 1
14,400.0	6,697.8	14,273.4	6,586.8	218.0	217.8	-70.29	-641.8	7,713.9	329.3	-81.7	411.02	0.801	Level 1
14,500.0	6,697.5	14,373.4	6,586.0	220.8	220.6	-70.22	-641.8	7,813.9	329.5	-86.7	416.15	0.792	Level 1
14,600.0	6,697.2	14,473.4	6,585.2	223.6	223.4	-70.14	-641.8	7,913.9	329.6	-91.7	421.27	0.782	Level 1
14,700.0	6,696.8	14,573.4	6,584.5	226.4	226.2	-70.07	-641.8	8,013.9	329.8	-96.6	426.39	0.773	Level 1
14,800.0	6,696.5	14,673.4	6,583.7	229.2	229.0	-70.00	-641.8	8,113.9	329.9	-101.6	431.51	0.765	Level 1
14,900.0	6,696.2	14,773.4	6,582.9	232.0	231.8	-69.93	-641.8	8,213.9	330.1	-106.6	436.62	0.756	Level 1
15,000.0	6,695.9	14,873.4	6,582.2	234.8	234.6	-69.86	-641.8	8,313.9	330.2	-111.5	441.73	0.748	Level 1
15,100.0	6,695.5	14,973.4	6,581.4	237.6	237.4	-69.79	-641.8	8,413.9	330.4	-116.5	446.83	0.739	Level 1
15,200.0	6,695.2	15,073.4	6,580.6	240.4	240.2	-69.72	-641.8	8,513.9	330.5	-121.4	451.93	0.731	Level 1
15,300.0	6,694.9	15,173.4	6,579.8	243.2	243.0	-69.65	-641.8	8,613.9	330.7	-126.4	457.03	0.724	Level 1
15,400.0	6,694.5	15,273.4	6,579.1	246.0	245.8	-69.58	-641.8	8,713.9	330.8	-131.3	462.12	0.716	Level 1
15,500.0	6,694.2	15,373.4	6,578.3	248.9	248.6	-69.50	-641.8	8,813.9	331.0	-136.2	467.20	0.708	Level 1
15,600.0	6,693.9	15,473.4	6,577.5	251.7	251.4	-69.43	-641.8	8,913.9	331.1	-141.2	472.28	0.701	Level 1
15,700.0	6,693.5	15,573.4	6,576.8	254.5	254.2	-69.36	-641.8	9,013.9	331.3	-146.1	477.36	0.694	Level 1
15,800.0	6,693.2	15,673.4	6,576.0	257.3	257.0	-69.29	-641.8	9,113.9	331.4	-151.0	482.43	0.687	Level 1
15,900.0	6,692.9	15,773.4	6,575.2	260.1	259.8	-69.22	-641.8	9,213.8	331.6	-155.9	487.49	0.680	Level 1
16,000.0	6,692.5	15,873.4	6,574.5	262.9	262.7	-69.15	-641.8	9,313.8	331.7	-160.8	492.55	0.674	Level 1
16,100.0	6,692.2	15,973.4	6,573.7	265.7	265.5	-69.08	-641.8	9,413.8	331.9	-165.7	497.61	0.667	Level 1
16,200.0	6,691.9	16,073.4	6,572.9	268.5	268.3	-69.01	-641.8	9,513.8	332.1	-170.6	502.66	0.661	Level 1
16,300.0	6,691.5	16,173.4	6,572.2	271.3	271.1	-68.94	-641.8	9,613.8	332.2	-175.5	507.71	0.654	Level 1
16,400.0	6,691.2	16,273.4	6,571.4	274.1	273.9	-68.87	-641.8	9,713.8	332.4	-180.4	512.75	0.648	Level 1
16,430.3	6,691.1	16,303.6	6,571.2	274.9	274.7	-68.85	-641.8	9,744.1	332.4	-181.9	514.28	0.646	Level 1
16,464.1	6,691.0	16,325.7	6,571.0	275.9	275.3	-68.83	-641.8	9,766.2	332.7	-183.0	515.70	0.645	Level 1, ES, SF

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 5 (Exist.) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 100-NS-GYRO-MS

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,700.0	6,523.2	6,501.7	6,501.1	22.6	12.2	-13.51	-794.4	1,041.6	989.7	966.2	23.54	42.049	
6,750.0	6,555.5	6,534.0	6,533.3	22.6	12.2	-15.13	-794.2	1,041.5	952.1	929.9	22.17	42.949	
6,800.0	6,585.4	6,563.7	6,563.0	22.7	12.3	-17.17	-794.1	1,041.4	912.5	891.6	20.85	43.758	
6,850.0	6,612.5	6,590.7	6,590.0	22.8	12.3	-19.75	-793.9	1,041.3	871.1	851.4	19.70	44.224	
6,900.0	6,636.8	6,614.9	6,614.2	22.9	12.3	-23.08	-793.8	1,041.2	828.1	809.3	18.87	43.880	
6,950.0	6,658.2	6,636.2	6,635.5	23.1	12.3	-27.42	-793.7	1,041.2	783.8	765.2	18.64	42.046	
7,000.0	6,676.6	6,654.5	6,653.8	23.3	12.4	-33.13	-793.6	1,041.1	738.3	719.0	19.35	38.152	
7,050.0	6,692.0	6,669.7	6,669.0	23.6	12.4	-40.63	-793.5	1,041.1	691.9	670.6	21.33	32.445	
7,100.0	6,704.2	6,681.7	6,681.1	23.9	12.4	-50.28	-793.4	1,041.1	644.8	620.2	24.60	26.211	
7,150.0	6,713.1	6,690.6	6,689.9	24.4	12.4	-62.01	-793.4	1,041.0	597.2	568.6	28.65	20.846	
7,200.0	6,718.9	6,696.2	6,695.5	25.0	12.4	-74.88	-793.4	1,041.0	549.5	517.1	32.42	16.949	
7,250.0	6,721.4	6,698.5	6,697.9	25.7	12.4	-87.22	-793.4	1,041.0	501.9	466.9	35.01	14.337	
7,265.7	6,721.5	6,698.6	6,698.0	25.9	12.4	-90.72	-793.4	1,041.0	487.0	451.5	35.54	13.703	
7,300.0	6,721.4	6,698.4	6,697.7	26.4	12.4	-90.64	-793.4	1,041.0	454.7	418.5	36.25	12.545	
7,400.0	6,721.1	6,697.8	6,697.1	28.2	12.4	-90.42	-793.4	1,041.0	362.7	324.3	38.39	9.446	
7,500.0	6,720.7	6,697.2	6,696.5	30.2	12.4	-90.20	-793.4	1,041.0	276.2	235.5	40.65	6.794	
7,600.0	6,720.4	6,696.6	6,695.9	32.3	12.4	-89.98	-793.4	1,041.0	202.6	159.6	43.00	4.711	
7,700.0	6,720.1	6,696.0	6,695.3	34.6	12.4	-89.76	-793.4	1,041.0	160.6	115.2	45.42	3.536	
7,726.2	6,720.0	6,695.8	6,695.1	35.2	12.4	-89.70	-793.4	1,041.0	158.4	112.4	46.07	3.439	CC, ES, SF
7,800.0	6,719.7	6,695.3	6,694.7	37.0	12.4	-89.54	-793.4	1,041.0	174.8	126.9	47.90	3.649	
7,900.0	6,719.4	6,694.7	6,694.1	39.4	12.4	-89.32	-793.4	1,041.0	235.2	184.7	50.42	4.664	
8,000.0	6,719.1	6,694.1	6,693.5	41.9	12.4	-89.10	-793.4	1,041.0	316.3	263.3	52.98	5.971	
8,100.0	6,718.7	6,693.5	6,692.9	44.4	12.4	-88.87	-793.4	1,041.0	406.0	350.4	55.56	7.307	
8,200.0	6,718.4	6,692.9	6,692.3	46.9	12.4	-88.65	-793.4	1,041.0	499.6	441.4	58.17	8.588	
8,300.0	6,718.1	6,692.3	6,691.6	49.5	12.4	-88.43	-793.4	1,041.0	595.2	534.4	60.80	9.790	
8,400.0	6,717.7	6,691.7	6,691.0	52.1	12.4	-88.21	-793.4	1,041.0	692.1	628.7	63.45	10.909	
8,500.0	6,717.4	6,691.1	6,690.4	54.7	12.4	-87.99	-793.4	1,041.0	789.8	723.7	66.11	11.948	
8,600.0	6,717.1	6,690.5	6,689.8	57.4	12.4	-87.77	-793.4	1,041.0	888.0	819.2	68.78	12.911	
8,700.0	6,716.7	6,689.8	6,689.2	60.1	12.4	-87.55	-793.4	1,041.0	986.6	915.1	71.46	13.806	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.0 ft

Survey Program: 95- **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
14,700.0	6,696.8	6,832.4	6,709.0	226.4	23.6	-102.95	-785.6	8,934.9	935.6	691.4	244.24	3.831	
14,800.0	6,696.5	6,828.5	6,705.1	229.2	23.6	-101.68	-785.7	8,935.0	837.5	589.5	248.05	3.376	
14,900.0	6,696.2	6,824.6	6,701.2	232.0	23.5	-100.37	-785.7	8,935.2	739.9	488.1	251.78	2.938	
15,000.0	6,695.9	6,820.5	6,697.2	234.8	23.5	-99.03	-785.7	8,935.3	642.9	387.4	255.44	2.517	
15,100.0	6,695.5	6,816.5	6,693.1	237.6	23.5	-97.65	-785.7	8,935.5	547.0	288.0	259.01	2.112	
15,200.0	6,695.2	6,812.0	6,688.7	240.4	23.5	-96.14	-785.7	8,935.7	452.8	190.3	262.51	1.725	
15,300.0	6,694.9	6,808.2	6,684.8	243.2	23.5	-94.83	-785.7	8,935.8	361.7	95.9	265.80	1.361	Level 3
15,400.0	6,694.5	6,803.8	6,680.5	246.0	23.5	-93.35	-785.7	8,936.0	276.8	7.8	269.00	1.029	Level 2
15,500.0	6,694.2	6,799.3	6,675.9	248.9	23.5	-91.77	-785.7	8,936.2	205.8	-66.2	272.06	0.757	Level 1
15,600.0	6,693.9	6,794.4	6,671.1	251.7	23.5	-90.09	-785.7	8,936.4	167.5	-107.4	274.93	0.609	Level 1
15,621.7	6,693.8	6,793.3	6,670.0	252.3	23.5	-89.71	-785.7	8,936.5	166.1	-109.4	275.52	0.603	Level 1, CC, ES, SF
15,700.0	6,693.5	6,789.2	6,665.9	254.5	23.5	-88.31	-785.7	8,936.6	183.6	-94.0	277.57	0.661	Level 1
15,800.0	6,693.2	6,783.7	6,660.4	257.3	23.5	-86.42	-785.8	8,936.9	243.5	-36.4	279.91	0.870	Level 1
15,900.0	6,692.9	6,777.8	6,654.5	260.1	23.5	-84.40	-785.8	8,937.2	323.8	41.9	281.91	1.148	Level 2
16,000.0	6,692.5	6,771.6	6,648.3	262.9	23.4	-82.27	-785.9	8,937.5	412.7	129.2	283.49	1.456	Level 3
16,100.0	6,692.2	6,764.8	6,641.5	265.7	23.4	-80.00	-785.9	8,937.9	505.7	221.1	284.57	1.777	
16,200.0	6,691.9	6,757.6	6,634.3	268.5	23.4	-77.60	-786.0	8,938.3	600.8	315.8	285.07	2.108	
16,300.0	6,691.5	6,749.8	6,626.6	271.3	23.4	-75.05	-786.1	8,938.7	697.3	412.4	284.88	2.448	
16,400.0	6,691.2	6,741.4	6,618.2	274.1	23.4	-72.37	-786.3	8,939.2	794.6	510.7	283.91	2.799	
16,464.1	6,691.0	6,735.7	6,612.4	275.9	23.4	-70.57	-786.4	8,939.6	857.2	574.4	282.83	3.031	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.0 ft

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

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
14,200.0	6,698.5	7,062.2	6,713.7	212.4	38.1	94.83	-1,446.2	8,292.8	922.6	675.7	246.97	3.736	
14,300.0	6,698.2	7,058.2	6,709.7	215.2	38.0	94.36	-1,446.3	8,292.9	840.1	590.1	249.93	3.361	
14,400.0	6,697.8	7,054.2	6,705.7	218.0	38.0	93.91	-1,446.4	8,293.0	761.6	508.8	252.87	3.012	
14,500.0	6,697.5	7,050.3	6,701.8	220.8	38.0	93.45	-1,446.5	8,293.2	688.8	433.0	255.80	2.693	
14,600.0	6,697.2	7,046.4	6,697.9	223.6	38.0	93.00	-1,446.6	8,293.3	623.5	364.8	258.72	2.410	
14,700.0	6,696.8	7,042.5	6,694.0	226.4	38.0	92.55	-1,446.7	8,293.4	568.4	306.7	261.63	2.172	
14,800.0	6,696.5	7,038.6	6,690.2	229.2	38.0	92.11	-1,446.8	8,293.6	526.6	262.1	264.52	1.991	
14,900.0	6,696.2	7,034.8	6,686.3	232.0	38.0	91.67	-1,446.9	8,293.7	501.5	234.1	267.40	1.876	
14,979.0	6,695.9	7,031.8	6,683.4	234.3	38.0	91.32	-1,447.0	8,293.8	495.3	225.6	269.67	1.837	CC
15,000.0	6,695.9	7,031.0	6,682.6	234.8	38.0	91.23	-1,447.0	8,293.8	495.7	225.5	270.27	1.834	ES, SF
15,100.0	6,695.5	7,027.3	6,678.8	237.6	38.0	90.80	-1,447.1	8,293.9	509.8	236.7	273.12	1.867	
15,200.0	6,695.2	7,023.6	6,675.1	240.4	38.0	90.37	-1,447.2	8,294.1	542.3	266.3	275.96	1.965	
15,300.0	6,694.9	7,019.9	6,671.4	243.2	38.0	89.94	-1,447.2	8,294.2	590.1	311.3	278.78	2.117	
15,400.0	6,694.5	7,016.2	6,667.8	246.0	38.0	89.52	-1,447.3	8,294.3	649.9	368.3	281.59	2.308	
15,500.0	6,694.2	7,012.6	6,664.1	248.9	38.0	89.10	-1,447.4	8,294.4	718.6	434.2	284.38	2.527	
15,600.0	6,693.9	7,009.0	6,660.5	251.7	38.0	88.68	-1,447.5	8,294.5	794.0	506.8	287.16	2.765	
15,700.0	6,693.5	7,005.4	6,657.0	254.5	38.0	88.27	-1,447.6	8,294.6	874.3	584.4	289.93	3.016	
15,800.0	6,693.2	7,001.9	6,653.4	257.3	38.0	87.86	-1,447.6	8,294.8	958.4	665.7	292.68	3.274	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.0 ft

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

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
15,500.0	6,694.2	6,726.4	6,639.4	248.9	20.1	86.56	-1,436.9	9,611.3	933.2	668.4	264.79	3.524	
15,600.0	6,693.9	6,730.2	6,643.2	251.7	20.1	87.01	-1,436.9	9,611.4	849.4	581.7	267.68	3.173	
15,700.0	6,693.5	6,734.0	6,647.0	254.5	20.1	87.46	-1,436.9	9,611.6	769.5	498.9	270.56	2.844	
15,800.0	6,693.2	6,737.9	6,650.8	257.3	20.1	87.91	-1,436.9	9,611.8	694.8	421.4	273.42	2.541	
15,900.0	6,692.9	6,741.7	6,654.6	260.1	20.1	88.36	-1,436.9	9,611.9	627.1	350.9	276.27	2.270	
16,000.0	6,692.5	6,745.4	6,658.4	262.9	20.1	88.80	-1,436.9	9,612.1	569.1	290.0	279.11	2.039	
16,100.0	6,692.2	6,749.2	6,662.2	265.7	20.1	89.25	-1,436.9	9,612.2	523.8	241.9	281.93	1.858	
16,200.0	6,691.9	6,753.0	6,665.9	268.5	20.1	89.69	-1,436.9	9,612.4	494.8	210.1	284.74	1.738	
16,297.8	6,691.6	6,756.6	6,669.6	271.2	20.1	90.12	-1,436.9	9,612.5	485.1	197.6	287.47	1.687	CC
16,300.0	6,691.5	6,756.7	6,669.7	271.3	20.1	90.13	-1,436.9	9,612.5	485.1	197.5	287.53	1.687	ES, SF
16,400.0	6,691.2	6,760.4	6,673.4	274.1	20.1	90.57	-1,436.9	9,612.7	495.7	205.4	290.31	1.708	
16,464.1	6,691.0	6,762.8	6,675.8	275.9	20.1	90.85	-1,436.9	9,612.8	512.8	220.7	292.08	1.756	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.0 ft

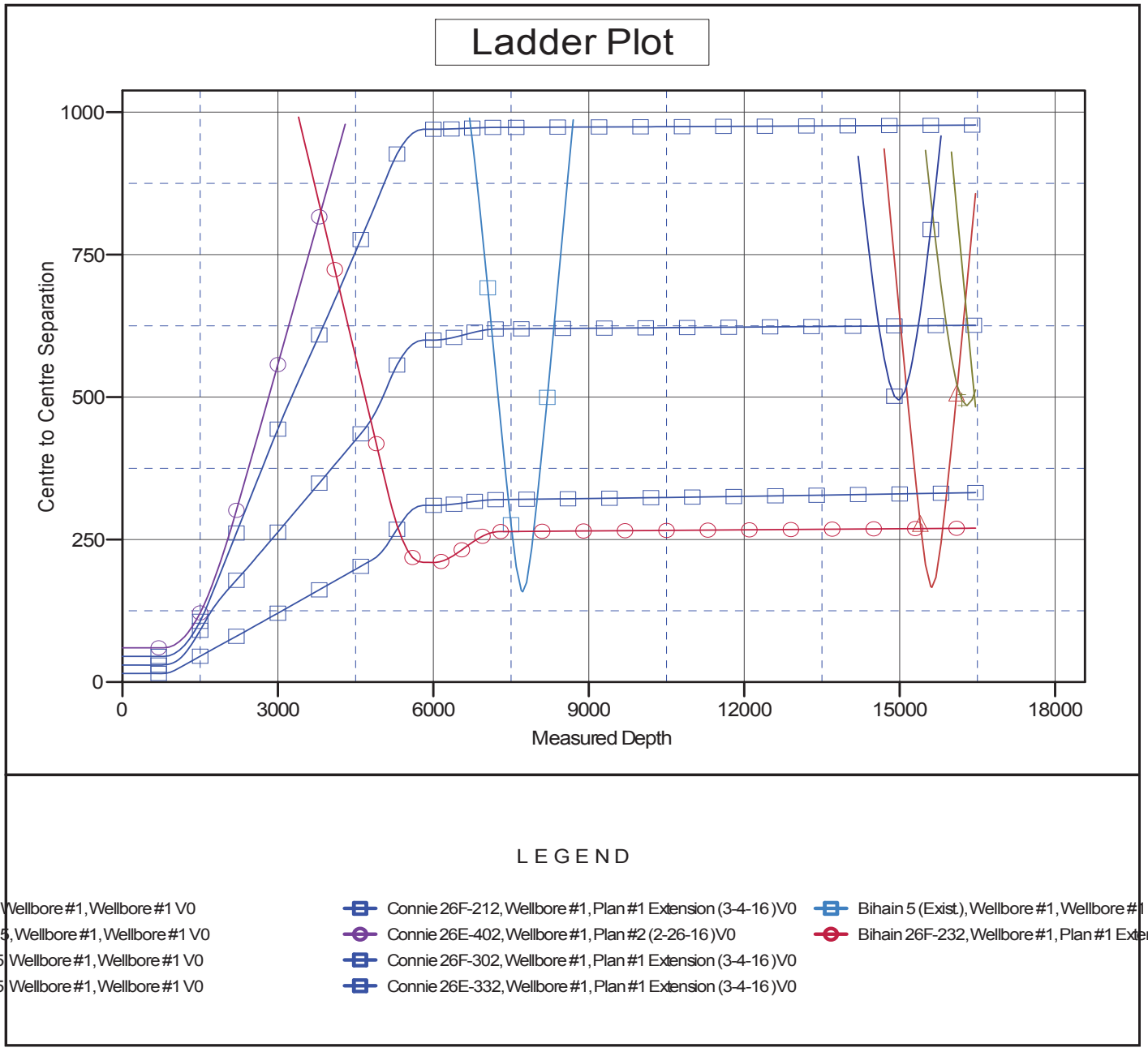
Survey Program: 91- **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
16,000.0	6,692.5	6,669.6	6,654.4	262.9	14.3	-86.42	-773.9	10,227.7	930.2	653.9	276.35	3.366	
16,100.0	6,692.2	6,670.7	6,655.5	265.7	14.3	-86.77	-773.9	10,227.7	832.3	553.1	279.25	2.981	
16,200.0	6,691.9	6,671.8	6,656.6	268.5	14.3	-87.12	-773.9	10,227.7	734.9	452.8	282.15	2.605	
16,300.0	6,691.5	6,672.9	6,657.6	271.3	14.3	-87.47	-773.9	10,227.8	638.4	353.3	285.04	2.240	
16,400.0	6,691.2	6,674.0	6,658.7	274.1	14.3	-87.82	-773.9	10,227.8	543.1	255.2	287.92	1.886	
16,464.1	6,691.0	6,674.7	6,659.4	275.9	14.3	-88.05	-773.9	10,227.8	483.0	193.2	289.76	1.667	CC, ES, SF

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4621.0ft (RKB - 23')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

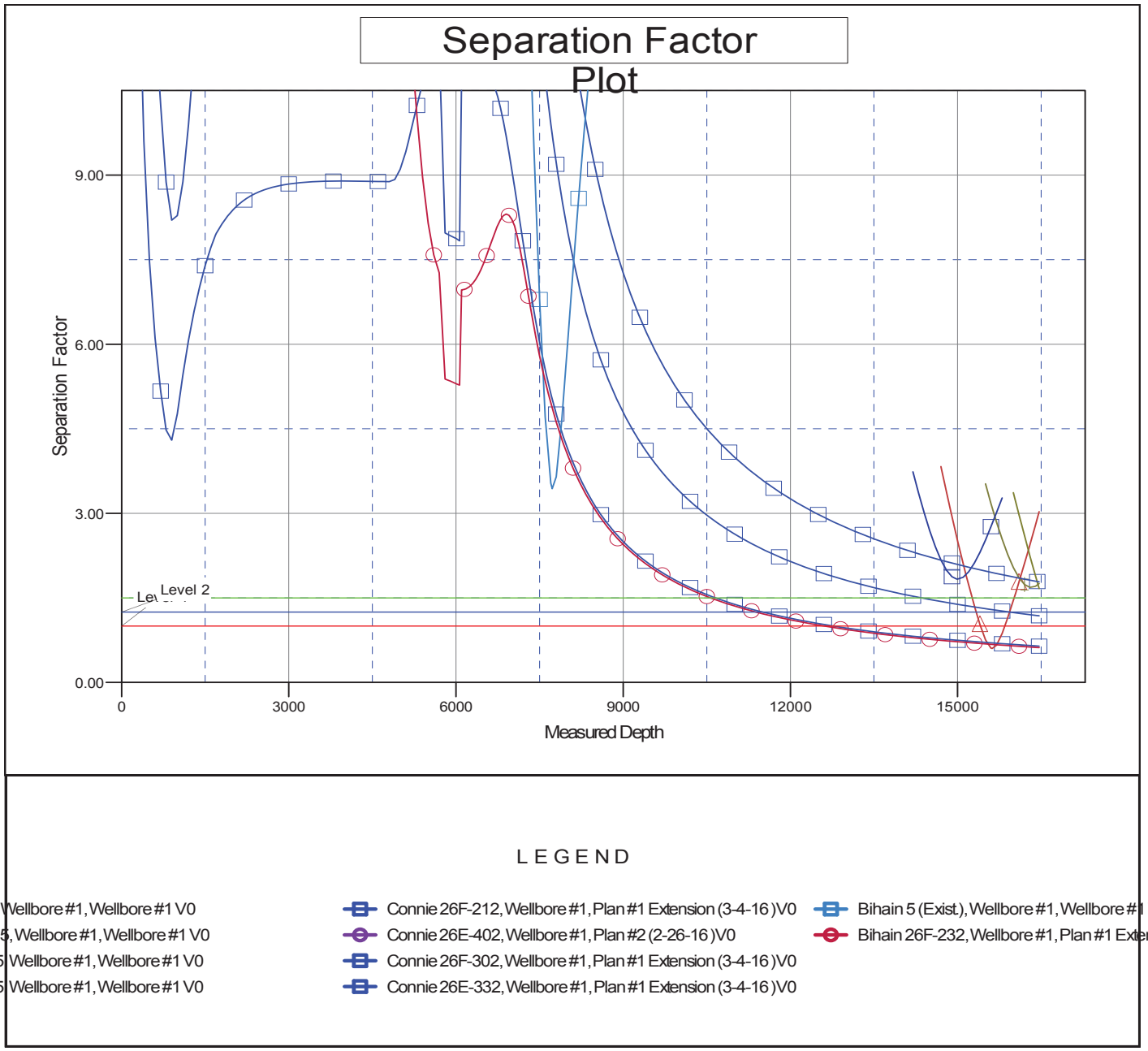
Coordinates are relative to: Connie 26F-402
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.63°



Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	**Local Co-ordinate Reference:**	Well Connie 26F-402
Project:	SEC.26-T5N-R64W	**TVD Reference:**	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	**MD Reference:**	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	Connie 26F-402	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4621.0ft (RKB - 23')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: Connie 26F-402
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.63°



LEGEND

5, Wellbore #1, Wellbore #1 V0	Connie 26F-212, Wellbore #1, Plan #1 Extension (3-4-16) V0	Bihain 5 (Exist.), Wellbore #1, Wellbore #1 V
25, Wellbore #1, Wellbore #1 V0	Connie 26E-402, Wellbore #1, Plan #2 (2-26-16) V0	Bihain 26F-232, Wellbore #1, Plan #1 Exten
25 Wellbore #1, Wellbore #1 V0	Connie 26F-302, Wellbore #1, Plan #1 Extension (3-4-16) V0	
25 Wellbore #1, Wellbore #1 V0	Connie 26E-332, Wellbore #1, Plan #1 Extension (3-4-16) V0	