

PETROLEUM DEVELOPMENT CORP DJ Basin

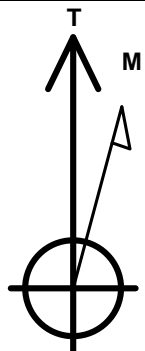
Well Name: **Connie 26E-332**

Surface Location: Connie 5N64W26EF Pad Sec.26-T5N-R64W
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone
Ground Elevation: 4597.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1381401.48 3271516.06 40.376253 -104.525435
RKB - 23' WELL @ 4620.0ft (RKB - 23')

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 502'FNL & 262'FWL, Sec.26	11.0	0.0	0.0	Point
BHL 500'FNL & 500'FEL, Sec.25	6571.0	-18.5	9739.4	Point



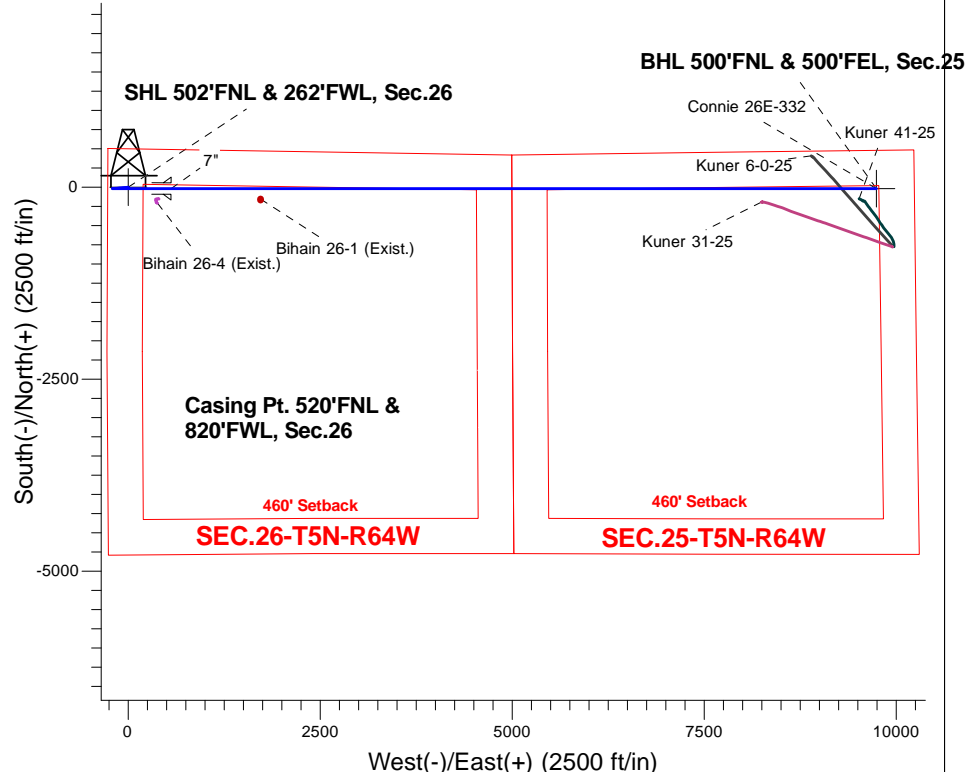
Azimuths to True North
Magnetic North: 8.14°

Magnetic Field
Strength: 52682.9snT
Dip Angle: 66.92°
Date: 11/4/2015
Model: IGRF2010

Connie 5N64W26EF Pad Sec.26-T5N-R64W
Connie 26E-332
Plan #1 Extension (3-4-16)
16:46, March 09 2016

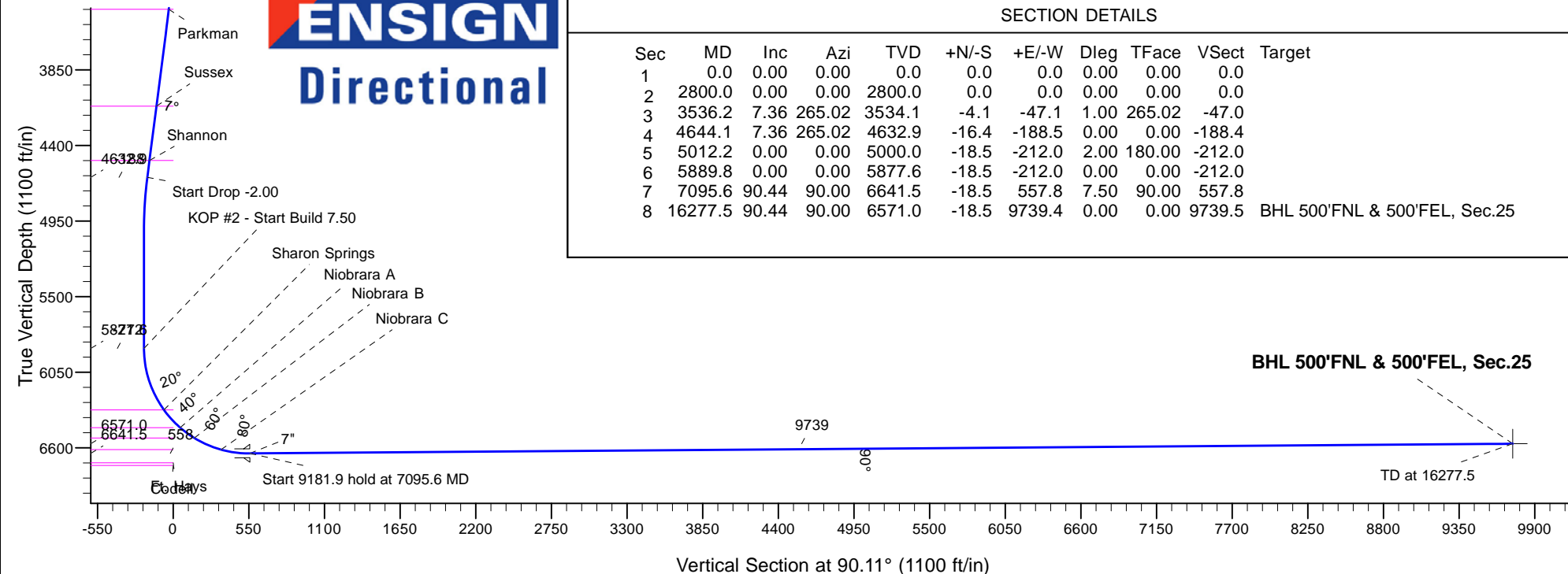
ANNOTATIONS

TVD	MD	Annotation
2800.0	2800.0	KOP - Start Build 1.00
4632.9	4644.1	Start Drop -2.00
5877.6	5889.8	KOP #2 - Start Build 7.50
6641.5	7095.6	Start 9181.9 hold at 7095.6 MD
6571.0	16277.5	TD at 16277.5



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	2800.0	0.00	0.00	2800.0	0.0	0.0	0.00	0.00	0.0	
3	3536.2	7.36	265.02	3534.1	-4.1	-47.1	1.00	265.02	-47.0	
4	4644.1	7.36	265.02	4632.9	-16.4	-188.5	0.00	0.00	-188.4	
5	5012.2	0.00	0.00	5000.0	-18.5	-212.0	2.00	180.00	-212.0	
6	5889.8	0.00	0.00	5877.6	-18.5	-212.0	0.00	0.00	-212.0	
7	7095.6	90.44	90.00	6641.5	-18.5	557.8	7.50	90.00	557.8	
8	16277.5	90.44	90.00	6571.0	-18.5	9739.4	0.00	0.00	9739.5	BHL 500'FNL & 500'FEL, Sec.25





Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Connie 5N64W26EF Pad Sec.26-T5N-R64W

Connie 26E-332

Wellbore #1

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

Standard Planning Report

09 March, 2016

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26E-332
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26E-332	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 26E-332					
Well Position	+N/-S	36.8 ft	Northing:	1,381,401.48 usft	Latitude:	40.376253
	+E/-W	25.9 ft	Easting:	3,271,516.06 usft	Longitude:	-104.525435
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,597.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/4/2015	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	90.11

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	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,536.2	7.36	265.02	3,534.1	-4.1	-47.1	1.00	1.00	0.00	265.02	
4,644.1	7.36	265.02	4,632.9	-16.4	-188.5	0.00	0.00	0.00	0.00	
5,012.2	0.00	0.00	5,000.0	-18.5	-212.0	2.00	-2.00	0.00	180.00	
5,889.8	0.00	0.00	5,877.6	-18.5	-212.0	0.00	0.00	0.00	0.00	
7,095.6	90.44	90.00	6,641.5	-18.5	557.8	7.50	7.50	0.00	90.00	
16,277.5	90.44	90.00	6,571.0	-18.5	9,739.4	0.00	0.00	0.00	0.00	BHL 500'FNL & 500'F

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26E-332
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26E-332	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
11.0	0.00	0.00	11.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 502'FNL & 262'FWL, Sec.26									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
2,900.0	1.00	265.02	2,900.0	-0.1	-0.9	-0.9	1.00	1.00	0.00
3,000.0	2.00	265.02	3,000.0	-0.3	-3.5	-3.5	1.00	1.00	0.00
3,100.0	3.00	265.02	3,099.9	-0.7	-7.8	-7.8	1.00	1.00	0.00
3,200.0	4.00	265.02	3,199.7	-1.2	-13.9	-13.9	1.00	1.00	0.00
3,300.0	5.00	265.02	3,299.4	-1.9	-21.7	-21.7	1.00	1.00	0.00
3,400.0	6.00	265.02	3,398.9	-2.7	-31.3	-31.3	1.00	1.00	0.00
3,410.2	6.10	265.02	3,409.0	-2.8	-32.3	-32.3	1.00	1.00	0.00
Parkman									
3,500.0	7.00	265.02	3,498.3	-3.7	-42.5	-42.5	1.00	1.00	0.00
3,536.2	7.36	265.02	3,534.1	-4.1	-47.1	-47.0	1.00	1.00	0.00
3,600.0	7.36	265.02	3,597.4	-4.8	-55.2	-55.2	0.00	0.00	0.00
3,700.0	7.36	265.02	3,696.6	-5.9	-68.0	-68.0	0.00	0.00	0.00
3,800.0	7.36	265.02	3,795.8	-7.0	-80.7	-80.7	0.00	0.00	0.00
3,900.0	7.36	265.02	3,895.0	-8.1	-93.5	-93.5	0.00	0.00	0.00
4,000.0	7.36	265.02	3,994.2	-9.3	-106.3	-106.2	0.00	0.00	0.00
4,100.0	7.36	265.02	4,093.3	-10.4	-119.0	-119.0	0.00	0.00	0.00
4,120.8	7.36	265.02	4,114.0	-10.6	-121.7	-121.7	0.00	0.00	0.00
Sussex									
4,200.0	7.36	265.02	4,192.5	-11.5	-131.8	-131.8	0.00	0.00	0.00
4,300.0	7.36	265.02	4,291.7	-12.6	-144.6	-144.5	0.00	0.00	0.00
4,400.0	7.36	265.02	4,390.9	-13.7	-157.3	-157.3	0.00	0.00	0.00

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Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26E-332	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	7.36	265.02	4,490.0	-14.8	-170.1	-170.1	0.00	0.00	0.00
4,519.1	7.36	265.02	4,509.0	-15.0	-172.5	-172.5	0.00	0.00	0.00
Shannon									
4,600.0	7.36	265.02	4,589.2	-15.9	-182.8	-182.8	0.00	0.00	0.00
4,644.1	7.36	265.02	4,632.9	-16.4	-188.5	-188.4	0.00	0.00	0.00
Start Drop -2.00									
4,700.0	6.24	265.02	4,688.4	-17.0	-195.1	-195.0	2.00	-2.00	0.00
4,800.0	4.24	265.02	4,788.0	-17.8	-204.2	-204.1	2.00	-2.00	0.00
4,900.0	2.24	265.02	4,887.9	-18.3	-209.8	-209.8	2.00	-2.00	0.00
5,000.0	0.24	265.02	4,987.8	-18.5	-212.0	-211.9	2.00	-2.00	0.00
5,012.2	0.00	0.00	5,000.0	-18.5	-212.0	-212.0	2.00	-2.00	0.00
5,100.0	0.00	0.00	5,087.8	-18.5	-212.0	-212.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,187.8	-18.5	-212.0	-212.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,287.8	-18.5	-212.0	-212.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,387.8	-18.5	-212.0	-212.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,487.8	-18.5	-212.0	-212.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,587.8	-18.5	-212.0	-212.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,687.8	-18.5	-212.0	-212.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,787.8	-18.5	-212.0	-212.0	0.00	0.00	0.00
5,889.8	0.00	0.00	5,877.6	-18.5	-212.0	-212.0	0.00	0.00	0.00
KOP #2 - Start Build 7.50									
5,900.0	0.77	90.00	5,887.8	-18.5	-211.9	-211.9	7.53	7.53	0.00
6,000.0	8.27	90.00	5,987.4	-18.5	-204.1	-204.0	7.50	7.50	0.00
6,100.0	15.77	90.00	6,085.2	-18.5	-183.3	-183.2	7.50	7.50	0.00
6,200.0	23.27	90.00	6,179.4	-18.5	-149.9	-149.8	7.50	7.50	0.00
6,300.0	30.77	90.00	6,268.4	-18.5	-104.5	-104.4	7.50	7.50	0.00
6,366.5	35.76	90.00	6,324.0	-18.5	-68.0	-68.0	7.50	7.50	0.00
Sharon Springs									
6,400.0	38.27	90.00	6,350.7	-18.5	-47.8	-47.8	7.50	7.50	0.00
6,500.0	45.77	90.00	6,425.0	-18.5	19.0	19.1	7.50	7.50	0.00
6,542.9	48.98	90.00	6,454.0	-18.5	50.6	50.6	7.50	7.50	0.00
Niobrara A									
6,600.0	53.27	90.00	6,489.8	-18.5	95.1	95.1	7.50	7.50	0.00
6,669.8	58.51	90.00	6,529.0	-18.5	152.9	152.9	7.50	7.50	0.00
Niobrara B									
6,700.0	60.77	90.00	6,544.2	-18.5	178.9	178.9	7.50	7.50	0.00
6,800.0	68.27	90.00	6,587.2	-18.5	269.1	269.1	7.50	7.50	0.00
6,884.0	74.57	90.00	6,614.0	-18.5	348.7	348.7	7.50	7.50	0.00
Niobrara C									
6,900.0	75.77	90.00	6,618.1	-18.5	364.1	364.2	7.50	7.50	0.00
7,000.0	83.27	90.00	6,636.3	-18.5	462.4	462.4	7.50	7.50	0.00
7,095.6	90.44	90.00	6,641.5	-18.5	557.8	557.8	7.50	7.50	0.00
Start 9181.9 hold at 7095.6 MD - 7"									
7,100.0	90.44	90.00	6,641.5	-18.5	562.2	562.2	0.04	0.04	0.00
7,200.0	90.44	90.00	6,640.7	-18.5	662.2	662.2	0.00	0.00	0.00
7,300.0	90.44	90.00	6,639.9	-18.5	762.2	762.2	0.00	0.00	0.00
7,400.0	90.44	90.00	6,639.2	-18.5	862.2	862.2	0.00	0.00	0.00
7,500.0	90.44	90.00	6,638.4	-18.5	962.2	962.2	0.00	0.00	0.00
7,600.0	90.44	90.00	6,637.6	-18.5	1,062.2	1,062.2	0.00	0.00	0.00
7,700.0	90.44	90.00	6,636.9	-18.5	1,162.2	1,162.2	0.00	0.00	0.00
7,800.0	90.44	90.00	6,636.1	-18.5	1,262.2	1,262.2	0.00	0.00	0.00
7,900.0	90.44	90.00	6,635.3	-18.5	1,362.2	1,362.2	0.00	0.00	0.00

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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)
8,000.0	90.44	90.00	6,634.6	-18.5	1,462.2	1,462.2	0.00	0.00	0.00
8,100.0	90.44	90.00	6,633.8	-18.5	1,562.2	1,562.2	0.00	0.00	0.00
8,200.0	90.44	90.00	6,633.0	-18.5	1,662.2	1,662.2	0.00	0.00	0.00
8,300.0	90.44	90.00	6,632.3	-18.5	1,762.2	1,762.2	0.00	0.00	0.00
8,400.0	90.44	90.00	6,631.5	-18.5	1,862.1	1,862.2	0.00	0.00	0.00
8,500.0	90.44	90.00	6,630.7	-18.5	1,962.1	1,962.2	0.00	0.00	0.00
8,600.0	90.44	90.00	6,630.0	-18.5	2,062.1	2,062.2	0.00	0.00	0.00
8,700.0	90.44	90.00	6,629.2	-18.5	2,162.1	2,162.2	0.00	0.00	0.00
8,800.0	90.44	90.00	6,628.4	-18.5	2,262.1	2,262.2	0.00	0.00	0.00
8,900.0	90.44	90.00	6,627.7	-18.5	2,362.1	2,362.2	0.00	0.00	0.00
9,000.0	90.44	90.00	6,626.9	-18.5	2,462.1	2,462.2	0.00	0.00	0.00
9,100.0	90.44	90.00	6,626.1	-18.5	2,562.1	2,562.2	0.00	0.00	0.00
9,200.0	90.44	90.00	6,625.4	-18.5	2,662.1	2,662.2	0.00	0.00	0.00
9,300.0	90.44	90.00	6,624.6	-18.5	2,762.1	2,762.2	0.00	0.00	0.00
9,400.0	90.44	90.00	6,623.8	-18.5	2,862.1	2,862.1	0.00	0.00	0.00
9,500.0	90.44	90.00	6,623.0	-18.5	2,962.1	2,962.1	0.00	0.00	0.00
9,600.0	90.44	90.00	6,622.3	-18.5	3,062.1	3,062.1	0.00	0.00	0.00
9,700.0	90.44	90.00	6,621.5	-18.5	3,162.1	3,162.1	0.00	0.00	0.00
9,800.0	90.44	90.00	6,620.7	-18.5	3,262.1	3,262.1	0.00	0.00	0.00
9,900.0	90.44	90.00	6,620.0	-18.5	3,362.1	3,362.1	0.00	0.00	0.00
10,000.0	90.44	90.00	6,619.2	-18.5	3,462.1	3,462.1	0.00	0.00	0.00
10,100.0	90.44	90.00	6,618.4	-18.5	3,562.1	3,562.1	0.00	0.00	0.00
10,200.0	90.44	90.00	6,617.7	-18.5	3,662.1	3,662.1	0.00	0.00	0.00
10,300.0	90.44	90.00	6,616.9	-18.5	3,762.1	3,762.1	0.00	0.00	0.00
10,400.0	90.44	90.00	6,616.1	-18.5	3,862.1	3,862.1	0.00	0.00	0.00
10,500.0	90.44	90.00	6,615.4	-18.5	3,962.1	3,962.1	0.00	0.00	0.00
10,600.0	90.44	90.00	6,614.6	-18.5	4,062.1	4,062.1	0.00	0.00	0.00
10,700.0	90.44	90.00	6,613.8	-18.5	4,162.1	4,162.1	0.00	0.00	0.00
10,800.0	90.44	90.00	6,613.1	-18.5	4,262.1	4,262.1	0.00	0.00	0.00
10,900.0	90.44	90.00	6,612.3	-18.5	4,362.1	4,362.1	0.00	0.00	0.00
11,000.0	90.44	90.00	6,611.5	-18.5	4,462.1	4,462.1	0.00	0.00	0.00
11,100.0	90.44	90.00	6,610.8	-18.5	4,562.1	4,562.1	0.00	0.00	0.00
11,200.0	90.44	90.00	6,610.0	-18.5	4,662.1	4,662.1	0.00	0.00	0.00
11,300.0	90.44	90.00	6,609.2	-18.5	4,762.1	4,762.1	0.00	0.00	0.00
11,400.0	90.44	90.00	6,608.5	-18.5	4,862.1	4,862.1	0.00	0.00	0.00
11,500.0	90.44	90.00	6,607.7	-18.5	4,962.1	4,962.1	0.00	0.00	0.00
11,600.0	90.44	90.00	6,606.9	-18.5	5,062.1	5,062.1	0.00	0.00	0.00
11,700.0	90.44	90.00	6,606.2	-18.5	5,162.1	5,162.1	0.00	0.00	0.00
11,800.0	90.44	90.00	6,605.4	-18.5	5,262.0	5,262.1	0.00	0.00	0.00
11,900.0	90.44	90.00	6,604.6	-18.5	5,362.0	5,362.1	0.00	0.00	0.00
12,000.0	90.44	90.00	6,603.8	-18.5	5,462.0	5,462.1	0.00	0.00	0.00
12,100.0	90.44	90.00	6,603.1	-18.5	5,562.0	5,562.1	0.00	0.00	0.00
12,200.0	90.44	90.00	6,602.3	-18.5	5,662.0	5,662.1	0.00	0.00	0.00
12,300.0	90.44	90.00	6,601.5	-18.5	5,762.0	5,762.1	0.00	0.00	0.00
12,400.0	90.44	90.00	6,600.8	-18.5	5,862.0	5,862.1	0.00	0.00	0.00
12,500.0	90.44	90.00	6,600.0	-18.5	5,962.0	5,962.1	0.00	0.00	0.00
12,600.0	90.44	90.00	6,599.2	-18.5	6,062.0	6,062.0	0.00	0.00	0.00
12,700.0	90.44	90.00	6,598.5	-18.5	6,162.0	6,162.0	0.00	0.00	0.00
12,800.0	90.44	90.00	6,597.7	-18.5	6,262.0	6,262.0	0.00	0.00	0.00
12,900.0	90.44	90.00	6,596.9	-18.5	6,362.0	6,362.0	0.00	0.00	0.00
13,000.0	90.44	90.00	6,596.2	-18.5	6,462.0	6,462.0	0.00	0.00	0.00
13,100.0	90.44	90.00	6,595.4	-18.5	6,562.0	6,562.0	0.00	0.00	0.00
13,200.0	90.44	90.00	6,594.6	-18.5	6,662.0	6,662.0	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26E-332
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26E-332	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)
13,300.0	90.44	90.00	6,593.9	-18.5	6,762.0	6,762.0	0.00	0.00	0.00
13,400.0	90.44	90.00	6,593.1	-18.5	6,862.0	6,862.0	0.00	0.00	0.00
13,500.0	90.44	90.00	6,592.3	-18.5	6,962.0	6,962.0	0.00	0.00	0.00
13,600.0	90.44	90.00	6,591.6	-18.5	7,062.0	7,062.0	0.00	0.00	0.00
13,678.2	90.44	90.00	6,591.0	-18.5	7,140.2	7,140.2	0.00	0.00	0.00
BHL 425'FNL & 2140'FWL, Sec.25									
13,700.0	90.44	90.00	6,590.8	-18.5	7,162.0	7,162.0	0.00	0.00	0.00
13,800.0	90.44	90.00	6,590.0	-18.5	7,262.0	7,262.0	0.00	0.00	0.00
13,900.0	90.44	90.00	6,589.3	-18.5	7,362.0	7,362.0	0.00	0.00	0.00
14,000.0	90.44	90.00	6,588.5	-18.5	7,462.0	7,462.0	0.00	0.00	0.00
14,100.0	90.44	90.00	6,587.7	-18.5	7,562.0	7,562.0	0.00	0.00	0.00
14,200.0	90.44	90.00	6,587.0	-18.5	7,662.0	7,662.0	0.00	0.00	0.00
14,300.0	90.44	90.00	6,586.2	-18.5	7,762.0	7,762.0	0.00	0.00	0.00
14,400.0	90.44	90.00	6,585.4	-18.5	7,862.0	7,862.0	0.00	0.00	0.00
14,500.0	90.44	90.00	6,584.7	-18.5	7,962.0	7,962.0	0.00	0.00	0.00
14,600.0	90.44	90.00	6,583.9	-18.5	8,062.0	8,062.0	0.00	0.00	0.00
14,700.0	90.44	90.00	6,583.1	-18.5	8,162.0	8,162.0	0.00	0.00	0.00
14,800.0	90.44	90.00	6,582.3	-18.5	8,262.0	8,262.0	0.00	0.00	0.00
14,900.0	90.44	90.00	6,581.6	-18.5	8,362.0	8,362.0	0.00	0.00	0.00
15,000.0	90.44	90.00	6,580.8	-18.5	8,462.0	8,462.0	0.00	0.00	0.00
15,100.0	90.44	90.00	6,580.0	-18.5	8,561.9	8,562.0	0.00	0.00	0.00
15,200.0	90.44	90.00	6,579.3	-18.5	8,661.9	8,662.0	0.00	0.00	0.00
15,300.0	90.44	90.00	6,578.5	-18.5	8,761.9	8,762.0	0.00	0.00	0.00
15,400.0	90.44	90.00	6,577.7	-18.5	8,861.9	8,862.0	0.00	0.00	0.00
15,500.0	90.44	90.00	6,577.0	-18.5	8,961.9	8,962.0	0.00	0.00	0.00
15,600.0	90.44	90.00	6,576.2	-18.5	9,061.9	9,062.0	0.00	0.00	0.00
15,700.0	90.44	90.00	6,575.4	-18.5	9,161.9	9,162.0	0.00	0.00	0.00
15,800.0	90.44	90.00	6,574.7	-18.5	9,261.9	9,261.9	0.00	0.00	0.00
15,900.0	90.44	90.00	6,573.9	-18.5	9,361.9	9,361.9	0.00	0.00	0.00
16,000.0	90.44	90.00	6,573.1	-18.5	9,461.9	9,461.9	0.00	0.00	0.00
16,100.0	90.44	90.00	6,572.4	-18.5	9,561.9	9,561.9	0.00	0.00	0.00
16,200.0	90.44	90.00	6,571.6	-18.5	9,661.9	9,661.9	0.00	0.00	0.00
16,277.5	90.44	90.00	6,571.0	-18.5	9,739.4	9,739.4	0.00	0.00	0.00
TD at 16277.5 - BHL 500'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 502'FNL & 262'FWL - plan hits target center - Point	0.00	0.63	11.0	0.0	0.0	1,381,401.50	3,271,516.06	40.376253	-104.525435
BHL 500'FNL & 500'FEL - plan hits target center - Point	0.00	0.00	6,571.0	-18.5	9,739.4	1,381,490.05	3,281,254.70	40.376197	-104.490479

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26E-332
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26E-332	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 (")
7,095.6	6,641.5	7"	7	8-3/4

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,410.2	3,409.0	Parkman		0.00	
4,120.8	4,114.0	Sussex		0.00	
4,519.1	4,509.0	Shannon		0.00	
6,366.5	6,324.0	Sharon Springs		0.00	
6,542.9	6,454.0	Niobrara A		0.00	
6,669.8	6,529.0	Niobrara B		0.00	
6,884.0	6,614.0	Niobrara C		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,800.0	2,800.0	0.0	0.0	KOP - Start Build 1.00
4,644.1	4,632.9	-4.1	-47.1	Start Drop -2.00
5,889.8	5,877.6	-16.4	-188.5	KOP #2 - Start Build 7.50
7,095.6	6,641.5	-18.5	-212.0	Start 9181.9 hold at 7095.6 MD
16,277.5	6,571.0	-18.5	-212.0	TD at 16277.5



Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Connie 5N64W26EF Pad Sec.26-T5N-R64W

Connie 26E-332

Wellbore #1

Plan #1 Extension (3-4-16)

Anticollision Report

09 March, 2016



Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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	3/9/2016		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	16,277.5	Plan #1 Extension (3-4-16) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Connie 5N64W26EF Pad Sec.26-T5N-R64W						
Connie 26E-402 - Wellbore #1 - Plan #1 Extension (3-4-16)	1,600.0	1,600.0	15.1	8.1	2.167	CC
Connie 26E-402 - Wellbore #1 - Plan #1 Extension (3-4-16)	16,277.5	16,362.7	331.7	-189.3	0.637	Level 1, ES, SF
Connie 26F-212 - Wellbore #1 - Plan #1 Extension (3-4-16)	1,400.0	1,400.0	15.1	9.0	2.488	CC
Connie 26F-212 - Wellbore #1 - Plan #1 Extension (3-4-16)	16,277.5	16,217.1	375.0	-169.0	0.689	Level 1, ES, SF
Connie 26F-302 - Wellbore #1 - Plan #1 Extension (3-4-16)	966.3	957.3	29.9	25.7	7.082	CC
Connie 26F-302 - Wellbore #1 - Plan #1 Extension (3-4-16)	1,000.0	991.0	29.9	25.5	6.837	ES
Connie 26F-302 - Wellbore #1 - Plan #1 Extension (3-4-16)	16,277.5	16,324.8	660.2	109.6	1.199	Level 2, SF
Connie 26F-402 - Wellbore #1 - Plan #1 Extension (3-4-16)	766.3	767.3	45.0	41.8	13.966	CC
Connie 26F-402 - Wellbore #1 - Plan #1 Extension (3-4-16)	800.0	801.0	45.0	41.6	13.341	ES
Connie 26F-402 - Wellbore #1 - Plan #1 Extension (3-4-16)	16,277.5	16,451.0	977.4	430.7	1.788	SF
Existing Wells Pad Sec.26-T5N-R64W						
Bihain 26-1 (Exist.) - Wellbore #1 - Wellbore #1	8,259.7	6,605.6	134.9	-49.2	0.733	Level 1, CC, ES, SF
Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1	6,910.1	6,597.3	189.6	157.2	5.852	CC, ES
Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1	6,950.0	6,606.2	193.5	160.4	5.845	SF
Kuner 8-2-25 Pad Sec.25-T5N-R64W						
Kuner 31-25 - Wellbore #1 - Wellbore #1	14,790.0	6,891.5	176.8	-92.8	0.656	Level 1, CC, ES, SF
Kuner 41-25 - Wellbore #1 - Wellbore #1	16,080.2	6,621.3	145.5	-140.5	0.509	Level 1, CC, ES, SF
Kuner 6-0-25 - Wellbore #1 - Wellbore #1	15,444.0	6,831.7	414.6	137.4	1.496	Level 3, CC, ES, SF

Offset Design	Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26E-402 - Wellbore #1 - Plan #1 Extension (3-4-16)											Offset Site Error:	0.0 ft
Survey Program:	0-MWD											Offset Well Error:	0.0 ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	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	34.90	12.4	8.6	15.1	15.1	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	34.90	12.4	8.6	15.1	14.9	0.22	67.169	
200.0	200.0	200.0	200.0	0.3	0.3	34.90	12.4	8.6	15.1	14.4	0.67	22.390	
300.0	300.0	300.0	300.0	0.6	0.6	34.90	12.4	8.6	15.1	14.0	1.12	13.434	
400.0	400.0	400.0	400.0	0.8	0.8	34.90	12.4	8.6	15.1	13.5	1.57	9.596	
500.0	500.0	500.0	500.0	1.0	1.0	34.90	12.4	8.6	15.1	13.1	2.02	7.463	
600.0	600.0	600.0	600.0	1.2	1.2	34.90	12.4	8.6	15.1	12.6	2.47	6.106	
700.0	700.0	700.0	700.0	1.5	1.5	34.90	12.4	8.6	15.1	12.2	2.92	5.167	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
800.0	800.0	800.0	800.0	1.7	1.7	34.90	12.4	8.6	15.1	11.7	3.37	4.478		
900.0	900.0	900.0	900.0	1.9	1.9	34.90	12.4	8.6	15.1	11.3	3.82	3.951		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	34.90	12.4	8.6	15.1	10.8	4.27	3.535		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	34.90	12.4	8.6	15.1	10.4	4.72	3.199		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	34.90	12.4	8.6	15.1	9.9	5.17	2.920		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	34.90	12.4	8.6	15.1	9.5	5.62	2.687		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	34.90	12.4	8.6	15.1	9.0	6.07	2.488		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	34.90	12.4	8.6	15.1	8.6	6.52	2.316		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	34.90	12.4	8.6	15.1	8.1	6.97	2.167 CC		
1,700.0	1,700.0	1,699.9	1,699.9	3.7	3.7	30.29	13.4	7.8	15.5	8.1	7.41	2.095		
1,800.0	1,800.0	1,799.6	1,799.5	3.9	3.9	18.21	16.5	5.4	17.4	9.5	7.86	2.210		
1,900.0	1,900.0	1,899.0	1,898.7	4.2	4.1	3.77	21.6	1.4	21.7	13.4	8.30	2.611		
2,000.0	2,000.0	1,998.1	1,997.4	4.4	4.4	-8.22	28.7	-4.1	29.1	20.4	8.75	3.328		
2,100.0	2,100.0	2,096.7	2,095.3	4.6	4.6	-16.58	37.8	-11.2	39.7	30.5	9.21	4.311		
2,200.0	2,200.0	2,195.8	2,193.6	4.8	4.9	-21.78	47.8	-19.1	51.8	42.2	9.68	5.358		
2,300.0	2,300.0	2,295.0	2,292.0	5.1	5.1	-24.99	57.8	-26.9	64.3	54.1	10.16	6.327		
2,400.0	2,400.0	2,394.2	2,390.3	5.3	5.4	-27.16	67.8	-34.8	76.8	66.2	10.65	7.217		
2,500.0	2,500.0	2,493.3	2,488.7	5.5	5.7	-28.72	77.8	-42.6	89.5	78.3	11.14	8.031		
2,600.0	2,600.0	2,592.5	2,587.0	5.7	5.9	-29.89	87.9	-50.5	102.2	90.5	11.64	8.775		
2,700.0	2,700.0	2,691.7	2,685.4	6.0	6.2	-30.80	97.9	-58.3	114.9	102.7	12.15	9.457		
2,800.0	2,800.0	2,790.9	2,783.7	6.2	6.5	-31.53	107.9	-66.2	127.6	115.0	12.66	10.083		
2,900.0	2,900.0	2,890.1	2,882.1	6.4	6.8	63.06	117.9	-74.0	140.0	127.2	12.80	10.940		
3,000.0	3,000.0	2,989.4	2,980.6	6.6	7.1	63.31	127.9	-81.9	151.6	138.3	13.22	11.461		
3,100.0	3,099.9	3,088.8	3,079.2	6.8	7.4	64.08	138.0	-89.8	162.4	148.7	13.66	11.888		
3,200.0	3,199.7	3,188.2	3,177.8	7.0	7.7	65.27	148.0	-97.6	172.5	158.4	14.10	12.233		
3,300.0	3,299.4	3,287.6	3,276.4	7.2	8.0	66.83	158.1	-105.5	182.0	167.5	14.56	12.506		
3,400.0	3,398.9	3,387.0	3,375.0	7.4	8.3	68.71	168.1	-113.4	191.0	176.0	15.02	12.718		
3,500.0	3,498.3	3,486.3	3,473.5	7.6	8.6	70.88	178.1	-121.2	199.7	184.2	15.50	12.881		
3,536.2	3,534.1	3,522.2	3,509.1	7.7	8.7	71.73	181.8	-124.1	202.8	187.1	15.68	12.929		
3,600.0	3,597.4	3,585.6	3,571.9	7.9	8.9	73.28	188.2	-129.1	208.2	192.2	16.00	13.011		
3,700.0	3,696.6	3,684.9	3,670.3	8.1	9.2	75.55	198.2	-136.9	217.1	200.5	16.52	13.142		
3,800.0	3,795.8	3,784.1	3,768.8	8.4	9.5	77.63	208.2	-144.8	226.2	209.2	17.04	13.276		
3,900.0	3,895.0	3,883.4	3,867.2	8.6	9.8	79.55	218.3	-152.7	235.6	218.1	17.57	13.410		
4,000.0	3,994.2	3,982.6	3,965.6	8.9	10.1	81.33	228.3	-160.5	245.3	227.2	18.11	13.544		
4,100.0	4,093.3	4,081.9	4,064.1	9.2	10.4	82.96	238.3	-168.4	255.2	236.5	18.66	13.675		
4,200.0	4,192.5	4,181.1	4,162.5	9.4	10.8	84.48	248.3	-176.2	265.3	246.1	19.22	13.805		
4,300.0	4,291.7	4,280.4	4,260.9	9.7	11.1	85.88	258.4	-184.1	275.5	255.8	19.78	13.932		
4,400.0	4,390.9	4,379.6	4,359.4	10.0	11.4	87.19	268.4	-191.9	285.9	265.6	20.34	14.055		
4,500.0	4,490.0	4,481.4	4,460.3	10.3	11.7	88.44	278.6	-199.9	296.4	275.5	20.91	14.172		
4,600.0	4,589.2	4,590.3	4,568.7	10.5	11.9	90.00	287.1	-206.6	304.6	283.2	21.45	14.204		
4,644.1	4,632.9	4,638.4	4,616.7	10.7	12.0	90.79	289.8	-208.7	307.4	285.7	21.68	14.176		
4,700.0	4,688.4	4,699.5	4,677.6	10.8	12.2	91.85	292.4	-210.8	310.0	288.0	21.96	14.115		
4,800.0	4,788.0	4,808.8	4,786.9	11.0	12.3	93.45	294.4	-212.3	312.3	289.9	22.41	13.939		
4,900.0	4,887.9	4,909.8	4,887.9	11.2	12.5	94.51	294.5	-212.4	312.7	289.9	22.83	13.702		
5,000.0	4,987.8	5,009.7	4,987.8	11.4	12.7	94.91	294.5	-212.4	312.9	289.7	23.23	13.468		
5,012.2	5,000.0	5,021.9	5,000.0	11.5	12.7	-0.07	294.5	-212.4	312.9	290.1	22.83	13.705		
5,100.0	5,087.8	5,109.7	5,087.8	11.6	12.9	-0.07	294.5	-212.4	312.9	289.7	23.18	13.498		
5,200.0	5,187.8	5,209.7	5,187.8	11.8	13.1	-0.07	294.5	-212.4	312.9	289.3	23.60	13.259		
5,300.0	5,287.8	5,309.7	5,287.8	12.0	13.3	-0.07	294.5	-212.4	312.9	288.9	24.02	13.029		
5,400.0	5,387.8	5,409.7	5,387.8	12.2	13.5	-0.07	294.5	-212.4	312.9	288.5	24.44	12.806		
5,500.0	5,487.8	5,509.7	5,487.8	12.5	13.7	-0.07	294.5	-212.4	312.9	288.1	24.86	12.589		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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 #1 Extension (3-4-											Offset Site Error:		0.0 ft
Survey Program:		0-MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,600.0	5,587.8	5,609.7	5,587.8	12.7	13.9	-0.07	294.5	-212.4	312.9	287.7	25.28	12.380			
5,700.0	5,687.8	5,709.7	5,687.8	12.9	14.1	-0.07	294.5	-212.4	312.9	287.2	25.70	12.176			
5,800.0	5,787.8	5,809.7	5,787.8	13.1	14.2	-0.07	294.5	-212.4	312.9	286.8	26.12	11.979			
5,889.8	5,877.6	5,899.5	5,877.6	13.3	14.4	-0.07	294.5	-212.4	312.9	286.4	26.50	11.808			
5,900.0	5,887.8	5,909.7	5,887.8	13.3	14.4	-90.08	294.5	-212.4	312.9	286.0	26.97	11.602			
5,950.0	5,937.8	5,959.7	5,937.8	13.4	14.5	-90.50	294.5	-212.4	312.9	285.8	27.15	11.526			
6,000.0	5,987.4	6,009.7	5,987.8	13.5	14.6	-91.40	294.5	-211.7	313.0	285.7	27.30	11.467			
6,050.0	6,036.7	6,060.1	6,038.0	13.5	14.7	-92.35	294.5	-208.1	313.2	285.8	27.42	11.424			
6,100.0	6,085.2	6,110.8	6,088.3	13.6	14.8	-93.28	294.5	-201.0	313.4	285.9	27.51	11.393			
6,150.0	6,132.8	6,162.0	6,138.3	13.6	14.8	-94.20	294.5	-190.6	313.8	286.2	27.60	11.370			
6,200.0	6,179.4	6,213.4	6,187.9	13.7	14.9	-95.11	294.5	-176.7	314.2	286.5	27.68	11.352			
6,250.0	6,224.6	6,265.3	6,236.7	13.7	14.9	-96.00	294.5	-159.4	314.7	286.9	27.76	11.336			
6,300.0	6,268.4	6,317.5	6,284.6	13.8	14.9	-96.86	294.5	-138.6	315.2	287.3	27.85	11.316			
6,350.0	6,310.5	6,370.0	6,331.3	13.9	14.9	-97.69	294.5	-114.5	315.8	287.8	27.98	11.286			
6,400.0	6,350.7	6,422.9	6,376.4	14.0	15.0	-98.48	294.5	-87.0	316.4	288.3	28.15	11.238			
6,450.0	6,388.9	6,476.1	6,419.9	14.2	15.0	-99.24	294.5	-56.2	317.1	288.7	28.40	11.166			
6,500.0	6,425.0	6,529.7	6,461.3	14.4	15.0	-99.95	294.5	-22.3	317.7	289.0	28.72	11.062			
6,550.0	6,458.7	6,583.6	6,500.5	14.7	15.1	-100.62	294.5	14.6	318.4	289.3	29.16	10.919			
6,600.0	6,489.8	6,637.7	6,537.2	15.1	15.2	-101.25	294.5	54.5	319.1	289.4	29.73	10.733			
6,650.0	6,518.4	6,692.2	6,571.1	15.5	15.5	-101.82	294.5	97.1	319.7	289.3	30.44	10.502			
6,700.0	6,544.2	6,746.9	6,602.1	16.1	16.0	-102.33	294.5	142.2	320.3	289.0	31.32	10.226			
6,750.0	6,567.2	6,801.9	6,629.8	16.7	16.6	-102.79	294.5	189.6	320.9	288.5	32.38	9.910			
6,800.0	6,587.2	6,857.0	6,654.2	17.3	17.3	-103.19	294.5	239.1	321.4	287.8	33.62	9.560			
6,850.0	6,604.2	6,912.4	6,675.0	18.1	18.0	-103.53	294.5	290.3	321.9	286.8	35.04	9.187			
6,900.0	6,618.1	6,967.9	6,692.1	18.9	18.9	-103.80	294.5	343.1	322.2	285.6	36.62	8.800			
6,950.0	6,628.8	7,023.5	6,705.3	19.8	19.9	-104.01	294.5	397.2	322.5	284.2	38.35	8.410			
7,000.0	6,636.3	7,079.3	6,714.6	20.8	20.9	-104.16	294.5	452.1	322.7	282.5	40.22	8.025			
7,050.0	6,640.5	7,135.0	6,719.8	21.8	22.0	-104.24	294.5	507.6	322.9	280.7	42.20	7.650			
7,095.6	6,641.5	7,185.6	6,721.0	22.7	23.0	-104.26	294.5	558.2	322.9	278.8	44.08	7.324			
7,100.0	6,641.5	7,190.0	6,721.0	22.8	23.1	-104.26	294.5	562.5	322.9	278.6	44.26	7.295			
7,200.0	6,640.7	7,290.0	6,720.6	25.0	25.2	-104.32	294.5	662.5	323.0	274.5	48.44	6.667			
7,300.0	6,639.9	7,390.0	6,720.2	27.3	27.5	-104.38	294.5	762.5	323.0	270.2	52.84	6.113			
7,400.0	6,639.2	7,490.0	6,719.7	29.7	29.8	-104.43	294.5	862.5	323.1	265.7	57.43	5.627			
7,500.0	6,638.4	7,590.0	6,719.3	32.1	32.3	-104.49	294.5	962.5	323.2	261.1	62.14	5.201			
7,600.0	6,637.6	7,690.0	6,718.8	34.6	34.7	-104.55	294.5	1,062.5	323.3	256.3	66.97	4.828			
7,700.0	6,636.9	7,790.0	6,718.4	37.2	37.3	-104.60	294.5	1,162.5	323.4	251.5	71.88	4.499			
7,800.0	6,636.1	7,890.0	6,718.0	39.7	39.8	-104.66	294.5	1,262.5	323.5	246.6	76.85	4.209			
7,900.0	6,635.3	7,990.0	6,717.5	42.4	42.4	-104.72	294.5	1,362.5	323.5	241.7	81.89	3.951			
8,000.0	6,634.6	8,090.0	6,717.1	45.0	45.1	-104.77	294.5	1,462.5	323.6	236.7	86.97	3.721			
8,100.0	6,633.8	8,190.0	6,716.7	47.6	47.7	-104.83	294.5	1,562.5	323.7	231.6	92.08	3.516			
8,200.0	6,633.0	8,290.0	6,716.2	50.3	50.4	-104.89	294.5	1,662.5	323.8	226.6	97.23	3.330			
8,300.0	6,632.3	8,390.0	6,715.8	53.0	53.0	-104.94	294.5	1,762.5	323.9	221.5	102.40	3.163			
8,400.0	6,631.5	8,490.0	6,715.4	55.7	55.7	-105.00	294.5	1,862.5	324.0	216.4	107.59	3.011			
8,500.0	6,630.7	8,590.0	6,714.9	58.4	58.4	-105.06	294.5	1,962.5	324.1	211.3	112.80	2.873			
8,600.0	6,630.0	8,690.0	6,714.5	61.1	61.1	-105.11	294.5	2,062.5	324.1	206.1	118.03	2.746			
8,700.0	6,629.2	8,790.0	6,714.0	63.9	63.9	-105.17	294.5	2,162.5	324.2	201.0	123.27	2.630			
8,800.0	6,628.4	8,890.0	6,713.6	66.6	66.6	-105.23	294.5	2,262.5	324.3	195.8	128.52	2.524			
8,900.0	6,627.7	8,990.0	6,713.2	69.3	69.3	-105.28	294.5	2,362.5	324.4	190.6	133.78	2.425			
9,000.0	6,626.9	9,090.0	6,712.7	72.1	72.1	-105.34	294.5	2,462.5	324.5	185.4	139.05	2.334			
9,100.0	6,626.1	9,190.0	6,712.3	74.8	74.8	-105.40	294.5	2,562.5	324.6	180.3	144.32	2.249			
9,200.0	6,625.4	9,290.0	6,711.9	77.6	77.5	-105.45	294.5	2,662.5	324.7	175.1	149.60	2.170			

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9,300.0	6,624.6	9,390.0	6,711.4	80.3	80.3	-105.51	294.5	2,762.5	324.8	169.9	154.89	2.097	
9,400.0	6,623.8	9,490.0	6,711.0	83.1	83.1	-105.57	294.5	2,862.5	324.8	164.7	160.18	2.028	
9,500.0	6,623.0	9,590.0	6,710.6	85.9	85.8	-105.62	294.5	2,962.5	324.9	159.5	165.47	1.964	
9,600.0	6,622.3	9,690.0	6,710.1	88.6	88.6	-105.68	294.5	3,062.5	325.0	154.3	170.76	1.903	
9,700.0	6,621.5	9,790.0	6,709.7	91.4	91.3	-105.74	294.5	3,162.5	325.1	149.1	176.06	1.847	
9,800.0	6,620.7	9,890.0	6,709.2	94.2	94.1	-105.79	294.5	3,262.5	325.2	143.8	181.36	1.793	
9,900.0	6,620.0	9,990.0	6,708.8	96.9	96.9	-105.85	294.5	3,362.5	325.3	138.6	186.66	1.743	
10,000.0	6,619.2	10,090.0	6,708.4	99.7	99.7	-105.90	294.5	3,462.5	325.4	133.4	191.96	1.695	
10,100.0	6,618.4	10,190.0	6,707.9	102.5	102.4	-105.96	294.5	3,562.5	325.5	128.2	197.27	1.650	
10,200.0	6,617.7	10,290.0	6,707.5	105.3	105.2	-106.02	294.5	3,662.5	325.6	123.0	202.57	1.607	
10,300.0	6,616.9	10,390.0	6,707.1	108.1	108.0	-106.07	294.5	3,762.5	325.7	117.8	207.87	1.567	
10,400.0	6,616.1	10,490.0	6,706.6	110.8	110.8	-106.13	294.5	3,862.5	325.8	112.6	213.18	1.528	
10,500.0	6,615.4	10,590.0	6,706.2	113.6	113.6	-106.18	294.5	3,962.5	325.8	107.4	218.48	1.491	Level 3
10,600.0	6,614.6	10,690.0	6,705.8	116.4	116.3	-106.24	294.5	4,062.5	325.9	102.2	223.78	1.457	Level 3
10,700.0	6,613.8	10,790.0	6,705.3	119.2	119.1	-106.30	294.5	4,162.5	326.0	96.9	229.08	1.423	Level 3
10,800.0	6,613.1	10,890.0	6,704.9	122.0	121.9	-106.35	294.5	4,262.5	326.1	91.7	234.38	1.391	Level 3
10,900.0	6,612.3	10,990.0	6,704.4	124.8	124.7	-106.41	294.5	4,362.5	326.2	86.5	239.68	1.361	Level 3
11,000.0	6,611.5	11,089.9	6,704.0	127.6	127.5	-106.46	294.5	4,462.5	326.3	81.3	244.98	1.332	Level 3
11,100.0	6,610.8	11,189.9	6,703.6	130.3	130.3	-106.52	294.5	4,562.5	326.4	76.1	250.28	1.304	Level 3
11,200.0	6,610.0	11,289.9	6,703.1	133.1	133.1	-106.58	294.5	4,662.5	326.5	70.9	255.57	1.278	Level 3
11,300.0	6,609.2	11,389.9	6,702.7	135.9	135.9	-106.63	294.5	4,762.5	326.6	65.7	260.87	1.252	Level 3
11,400.0	6,608.5	11,489.9	6,702.3	138.7	138.6	-106.69	294.5	4,862.5	326.7	60.5	266.16	1.227	Level 2
11,500.0	6,607.7	11,589.9	6,701.8	141.5	141.4	-106.74	294.5	4,962.5	326.8	55.3	271.45	1.204	Level 2
11,600.0	6,606.9	11,689.9	6,701.4	144.3	144.2	-106.80	294.5	5,062.5	326.9	50.1	276.74	1.181	Level 2
11,700.0	6,606.2	11,789.9	6,701.0	147.1	147.0	-106.85	294.5	5,162.5	327.0	45.0	282.02	1.159	Level 2
11,800.0	6,605.4	11,889.9	6,700.5	149.9	149.8	-106.91	294.5	5,262.5	327.1	39.8	287.31	1.138	Level 2
11,900.0	6,604.6	11,989.9	6,700.1	152.7	152.6	-106.96	294.5	5,362.5	327.2	34.6	292.59	1.118	Level 2
12,000.0	6,603.8	12,089.9	6,699.6	155.5	155.4	-107.02	294.5	5,462.5	327.3	29.4	297.87	1.099	Level 2
12,100.0	6,603.1	12,189.9	6,699.2	158.3	158.2	-107.08	294.5	5,562.5	327.4	24.2	303.15	1.080	Level 2
12,200.0	6,602.3	12,289.9	6,698.8	161.1	161.0	-107.13	294.5	5,662.5	327.5	19.0	308.42	1.062	Level 2
12,300.0	6,601.5	12,389.9	6,698.3	163.9	163.8	-107.19	294.5	5,762.5	327.6	13.9	313.70	1.044	Level 2
12,400.0	6,600.8	12,489.9	6,697.9	166.7	166.6	-107.24	294.5	5,862.5	327.7	8.7	318.97	1.027	Level 2
12,500.0	6,600.0	12,589.9	6,697.5	169.5	169.4	-107.30	294.5	5,962.5	327.8	3.5	324.24	1.011	Level 2
12,600.0	6,599.2	12,689.9	6,697.0	172.3	172.2	-107.35	294.5	6,062.5	327.9	-1.6	329.50	0.995	Level 1
12,700.0	6,598.5	12,789.9	6,696.6	175.1	175.0	-107.41	294.5	6,162.4	328.0	-6.8	334.77	0.980	Level 1
12,800.0	6,597.7	12,889.9	6,696.2	177.9	177.8	-107.46	294.5	6,262.4	328.1	-12.0	340.03	0.965	Level 1
12,900.0	6,596.9	12,989.9	6,695.7	180.7	180.6	-107.52	294.5	6,362.4	328.2	-17.1	345.28	0.950	Level 1
13,000.0	6,596.2	13,089.9	6,695.3	183.5	183.4	-107.57	294.5	6,462.4	328.3	-22.3	350.54	0.936	Level 1
13,100.0	6,595.4	13,189.9	6,694.8	186.3	186.2	-107.63	294.5	6,562.4	328.4	-27.4	355.79	0.923	Level 1
13,200.0	6,594.6	13,289.9	6,694.4	189.1	189.0	-107.68	294.5	6,662.4	328.5	-32.6	361.04	0.910	Level 1
13,300.0	6,593.9	13,389.9	6,694.0	191.9	191.8	-107.74	294.5	6,762.4	328.6	-37.7	366.29	0.897	Level 1
13,400.0	6,593.1	13,489.9	6,693.5	194.7	194.6	-107.79	294.5	6,862.4	328.7	-42.9	371.53	0.885	Level 1
13,500.0	6,592.3	13,589.9	6,693.1	197.5	197.4	-107.85	294.5	6,962.4	328.8	-48.0	376.78	0.873	Level 1
13,600.0	6,591.6	13,689.9	6,692.7	200.3	200.2	-107.90	294.5	7,062.4	328.9	-53.2	382.02	0.861	Level 1
13,700.0	6,590.8	13,789.9	6,692.2	203.1	203.0	-107.96	294.5	7,162.4	329.0	-58.3	387.25	0.849	Level 1
13,800.0	6,590.0	13,889.9	6,691.8	205.9	205.8	-108.01	294.5	7,262.4	329.1	-63.4	392.48	0.838	Level 1
13,900.0	6,589.3	13,989.9	6,691.4	208.7	208.6	-108.07	294.5	7,362.4	329.2	-68.5	397.71	0.828	Level 1
14,000.0	6,588.5	14,089.9	6,690.9	211.5	211.4	-108.12	294.5	7,462.4	329.3	-73.7	402.94	0.817	Level 1
14,100.0	6,587.7	14,189.9	6,690.5	214.3	214.2	-108.18	294.5	7,562.4	329.4	-78.8	408.16	0.807	Level 1
14,200.0	6,587.0	14,289.9	6,690.0	217.1	217.0	-108.23	294.5	7,662.4	329.5	-83.9	413.39	0.797	Level 1
14,300.0	6,586.2	14,389.9	6,689.6	219.9	219.8	-108.29	294.5	7,762.4	329.6	-89.0	418.60	0.787	Level 1

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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 #1 Extension (3-4-		Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor					
14,400.0	6,585.4	14,489.9	6,689.2	222.7	222.6	-108.34	294.5	7,862.4	329.7	-94.1	423.82	0.778	Level 1				
14,500.0	6,584.7	14,589.9	6,688.7	225.5	225.4	-108.40	294.5	7,962.4	329.8	-99.2	429.03	0.769	Level 1				
14,600.0	6,583.9	14,689.9	6,688.3	228.3	228.2	-108.45	294.5	8,062.4	329.9	-104.3	434.24	0.760	Level 1				
14,700.0	6,583.1	14,789.9	6,687.9	231.1	231.0	-108.51	294.5	8,162.4	330.0	-109.4	439.44	0.751	Level 1				
14,800.0	6,582.3	14,889.9	6,687.4	233.9	233.8	-108.56	294.5	8,262.4	330.1	-114.5	444.65	0.742	Level 1				
14,900.0	6,581.6	14,989.9	6,687.0	236.7	236.6	-108.62	294.5	8,362.4	330.2	-119.6	449.85	0.734	Level 1				
15,000.0	6,580.8	15,089.9	6,686.6	239.5	239.4	-108.67	294.5	8,462.4	330.3	-124.7	455.04	0.726	Level 1				
15,100.0	6,580.0	15,189.9	6,686.1	242.3	242.2	-108.72	294.5	8,562.4	330.4	-129.8	460.23	0.718	Level 1				
15,200.0	6,579.3	15,289.9	6,685.7	245.1	245.0	-108.78	294.5	8,662.4	330.5	-134.9	465.42	0.710	Level 1				
15,300.0	6,578.5	15,389.9	6,685.2	247.9	247.9	-108.83	294.5	8,762.4	330.6	-140.0	470.61	0.703	Level 1				
15,400.0	6,577.7	15,489.9	6,684.8	250.8	250.7	-108.89	294.5	8,862.4	330.7	-145.0	475.79	0.695	Level 1				
15,500.0	6,577.0	15,589.9	6,684.4	253.6	253.5	-108.94	294.5	8,962.4	330.9	-150.1	480.97	0.688	Level 1				
15,600.0	6,576.2	15,689.9	6,683.9	256.4	256.3	-109.00	294.5	9,062.4	331.0	-155.2	486.15	0.681	Level 1				
15,700.0	6,575.4	15,789.9	6,683.5	259.2	259.1	-109.05	294.5	9,162.4	331.1	-160.2	491.32	0.674	Level 1				
15,800.0	6,574.7	15,889.9	6,683.1	262.0	261.9	-109.11	294.5	9,262.4	331.2	-165.3	496.49	0.667	Level 1				
15,900.0	6,573.9	15,989.9	6,682.6	264.8	264.7	-109.16	294.5	9,362.4	331.3	-170.4	501.66	0.660	Level 1				
16,000.0	6,573.1	16,089.9	6,682.2	267.6	267.5	-109.21	294.5	9,462.4	331.4	-175.4	506.82	0.654	Level 1				
16,100.0	6,572.4	16,189.9	6,681.8	270.4	270.3	-109.27	294.5	9,562.4	331.5	-180.5	511.98	0.648	Level 1				
16,200.0	6,571.6	16,289.9	6,681.3	273.2	273.1	-109.32	294.5	9,662.4	331.6	-185.5	517.13	0.641	Level 1				
16,240.9	6,571.3	16,330.8	6,681.1	274.3	274.2	-109.34	294.5	9,703.3	331.7	-187.6	519.24	0.639	Level 1				
16,277.5	6,571.0	16,362.7	6,681.0	275.4	275.1	-109.36	294.5	9,735.1	331.7	-189.3	521.01	0.637	Level 1, ES, SF				

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-145.11	-12.4	-8.6	15.1	15.1	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	-145.11	-12.4	-8.6	15.1	14.9	0.22	67.184		
200.0	200.0	200.0	200.0	0.3	0.3	-145.11	-12.4	-8.6	15.1	14.4	0.67	22.395		
300.0	300.0	300.0	300.0	0.6	0.6	-145.11	-12.4	-8.6	15.1	14.0	1.12	13.437		
400.0	400.0	400.0	400.0	0.8	0.8	-145.11	-12.4	-8.6	15.1	13.5	1.57	9.598		
500.0	500.0	500.0	500.0	1.0	1.0	-145.11	-12.4	-8.6	15.1	13.1	2.02	7.465		
600.0	600.0	600.0	600.0	1.2	1.2	-145.11	-12.4	-8.6	15.1	12.6	2.47	6.108		
700.0	700.0	700.0	700.0	1.5	1.5	-145.11	-12.4	-8.6	15.1	12.2	2.92	5.168		
800.0	800.0	800.0	800.0	1.7	1.7	-145.11	-12.4	-8.6	15.1	11.7	3.37	4.479		
900.0	900.0	900.0	900.0	1.9	1.9	-145.11	-12.4	-8.6	15.1	11.3	3.82	3.952		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-145.11	-12.4	-8.6	15.1	10.8	4.27	3.536		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-145.11	-12.4	-8.6	15.1	10.4	4.72	3.199		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-145.11	-12.4	-8.6	15.1	9.9	5.17	2.921		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-145.11	-12.4	-8.6	15.1	9.5	5.62	2.687		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-145.11	-12.4	-8.6	15.1	9.0	6.07	2.488 CC		
1,500.0	1,500.0	1,499.6	1,499.6	3.3	3.2	-145.62	-13.5	-9.3	16.4	9.9	6.49	2.526		
1,600.0	1,600.0	1,599.0	1,598.9	3.5	3.4	-146.75	-16.9	-11.1	20.3	13.4	6.89	2.945		
1,700.0	1,700.0	1,698.2	1,697.9	3.7	3.6	-147.91	-22.6	-14.2	26.8	19.5	7.30	3.669		
1,800.0	1,800.0	1,797.0	1,796.3	3.9	3.8	-148.82	-30.5	-18.5	35.9	28.1	7.72	4.646		
1,900.0	1,900.0	1,895.2	1,893.9	4.2	4.0	-149.48	-40.6	-23.9	47.5	39.3	8.15	5.826		
2,000.0	2,000.0	1,994.1	1,991.8	4.4	4.2	-149.93	-52.2	-30.2	60.9	52.3	8.61	7.076		
2,100.0	2,100.0	2,093.2	2,090.0	4.6	4.5	-150.22	-64.0	-36.6	74.4	65.3	9.08	8.193		
2,200.0	2,200.0	2,192.3	2,188.2	4.8	4.7	-150.42	-75.7	-43.0	87.8	78.3	9.56	9.189		
2,300.0	2,300.0	2,291.3	2,286.4	5.1	5.0	-150.57	-87.4	-49.3	101.3	91.3	10.05	10.079		
2,400.0	2,400.0	2,390.4	2,384.5	5.3	5.3	-150.68	-99.2	-55.7	114.8	104.2	10.55	10.877		
2,500.0	2,500.0	2,489.5	2,482.7	5.5	5.6	-150.77	-110.9	-62.1	128.3	117.2	11.06	11.595		
2,600.0	2,600.0	2,588.6	2,580.9	5.7	5.8	-150.84	-122.6	-68.4	141.7	130.1	11.58	12.244		
2,700.0	2,700.0	2,687.7	2,679.1	6.0	6.1	-150.90	-134.4	-74.8	155.2	143.1	12.09	12.832		
2,800.0	2,800.0	2,786.8	2,777.3	6.2	6.4	-150.95	-146.1	-81.1	168.7	156.0	12.62	13.366		
2,900.0	2,900.0	2,885.9	2,875.5	6.4	6.7	-156.14	-157.9	-87.5	181.7	169.2	12.45	14.590		
3,000.0	3,000.0	2,985.2	2,973.9	6.6	7.1	-156.71	-169.6	-93.9	193.7	180.8	12.87	15.050		
3,100.0	3,099.9	3,084.5	3,072.3	6.8	7.4	-57.62	-181.4	-100.3	204.8	191.5	13.29	15.407		
3,200.0	3,199.7	3,183.9	3,170.7	7.0	7.7	-58.83	-193.1	-106.6	215.1	201.4	13.72	15.674		
3,300.0	3,299.4	3,283.2	3,269.2	7.2	8.0	-60.31	-204.9	-113.0	224.6	210.5	14.16	15.861		
3,400.0	3,398.9	3,382.6	3,367.6	7.4	8.3	-62.05	-216.7	-119.4	233.5	218.9	14.61	15.980		
3,500.0	3,498.3	3,481.8	3,466.0	7.6	8.6	-64.02	-228.4	-125.8	241.8	226.7	15.07	16.041		
3,536.2	3,534.1	3,517.7	3,501.6	7.7	8.8	-64.79	-232.7	-128.1	244.7	229.5	15.25	16.050		
3,600.0	3,597.4	3,581.1	3,564.3	7.9	9.0	-66.19	-240.2	-132.2	249.8	234.3	15.56	16.061		
3,700.0	3,696.6	3,680.3	3,662.6	8.1	9.3	-68.27	-251.9	-138.5	258.2	242.1	16.05	16.086		
3,800.0	3,795.8	3,779.5	3,761.0	8.4	9.6	-70.22	-263.7	-144.9	266.8	250.3	16.56	16.116		
3,900.0	3,895.0	3,878.7	3,859.3	8.6	9.9	-72.05	-275.4	-151.3	275.8	258.7	17.08	16.151		
4,000.0	3,994.2	3,978.0	3,957.6	8.9	10.3	-73.76	-287.2	-157.6	285.0	267.4	17.60	16.189		
4,100.0	4,093.3	4,077.2	4,055.9	9.2	10.6	-75.36	-298.9	-164.0	294.4	276.3	18.14	16.230		
4,200.0	4,192.5	4,176.4	4,154.2	9.4	10.9	-76.86	-310.7	-170.4	304.1	285.4	18.69	16.272		
4,300.0	4,291.7	4,275.6	4,252.6	9.7	11.2	-78.27	-322.4	-176.8	314.0	294.7	19.24	16.315		
4,400.0	4,390.9	4,374.9	4,350.9	10.0	11.6	-79.60	-334.2	-183.1	324.0	304.2	19.81	16.359		
4,500.0	4,490.0	4,474.1	4,449.2	10.3	11.9	-80.84	-345.9	-189.5	334.2	313.8	20.37	16.403		
4,600.0	4,589.2	4,573.3	4,547.5	10.5	12.2	-82.01	-357.7	-195.9	344.6	323.6	20.95	16.447		
4,644.1	4,632.9	4,617.0	4,590.9	10.7	12.4	-82.51	-362.9	-198.7	349.2	328.0	21.20	16.467		
4,700.0	4,688.4	4,676.5	4,649.8	10.8	12.6	-83.19	-369.7	-202.4	354.9	333.4	21.52	16.496		
4,800.0	4,788.0	4,788.6	4,761.3	11.0	12.8	-84.14	-379.8	-207.9	363.1	341.1	22.01	16.497		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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													Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
4,900.0	4,887.9	4,901.1	4,873.5	11.2	13.1	-84.71	-386.1	-211.3	368.2	345.7	22.46	16.393			
5,000.0	4,987.8	5,013.9	4,986.3	11.4	13.3	-84.92	-388.6	-212.6	370.1	347.3	22.87	16.185			
5,012.2	5,000.0	5,027.6	5,000.0	11.5	13.3	-179.90	-388.6	-212.6	370.1	346.6	23.54	15.724			
5,100.0	5,087.8	5,115.4	5,087.8	11.6	13.4	-179.90	-388.6	-212.6	370.1	346.3	23.87	15.509			
5,200.0	5,187.8	5,215.4	5,187.8	11.8	13.6	-179.90	-388.6	-212.6	370.1	345.9	24.25	15.266			
5,300.0	5,287.8	5,315.4	5,287.8	12.0	13.7	-179.90	-388.6	-212.6	370.1	345.5	24.63	15.029			
5,400.0	5,387.8	5,415.4	5,387.8	12.2	13.9	-179.90	-388.6	-212.6	370.1	345.1	25.01	14.799			
5,500.0	5,487.8	5,515.4	5,487.8	12.5	14.1	-179.90	-388.6	-212.6	370.1	344.7	25.40	14.574			
5,600.0	5,587.8	5,615.4	5,587.8	12.7	14.2	-179.90	-388.6	-212.6	370.1	344.4	25.79	14.354			
5,700.0	5,687.8	5,715.4	5,687.8	12.9	14.4	-179.90	-388.6	-212.6	370.1	344.0	26.18	14.141			
5,800.0	5,787.8	5,815.4	5,787.8	13.1	14.6	-179.90	-388.6	-212.6	370.1	343.6	26.57	13.932			
5,845.0	5,832.8	5,860.4	5,832.8	13.2	14.6	-180.00	-388.6	-212.0	370.1	343.4	26.74	13.843			
5,889.8	5,877.6	5,905.0	5,877.3	13.3	14.7	179.52	-388.6	-208.9	370.2	343.3	26.90	13.762			
5,900.0	5,887.8	5,915.1	5,887.4	13.3	14.7	89.36	-388.6	-207.8	370.2	343.7	26.43	14.004			
5,950.0	5,937.8	5,964.5	5,936.2	13.4	14.8	88.60	-388.6	-200.7	370.3	343.7	26.60	13.918			
6,000.0	5,987.4	6,013.5	5,984.1	13.5	14.8	87.85	-388.6	-190.5	370.4	343.7	26.75	13.848			
6,050.0	6,036.7	6,062.2	6,031.0	13.5	14.8	87.11	-388.6	-177.4	370.6	343.7	26.87	13.791			
6,100.0	6,085.2	6,110.6	6,076.7	13.6	14.9	86.39	-388.6	-161.4	370.9	343.9	26.98	13.744			
6,150.0	6,132.8	6,158.8	6,121.1	13.6	14.9	85.68	-388.6	-142.6	371.2	344.1	27.09	13.704			
6,200.0	6,179.4	6,206.7	6,163.9	13.7	14.9	85.00	-388.6	-121.2	371.6	344.4	27.19	13.666			
6,250.0	6,224.6	6,254.4	6,205.2	13.7	14.9	84.34	-388.6	-97.3	372.0	344.7	27.31	13.622			
6,300.0	6,268.4	6,301.8	6,244.6	13.8	15.0	83.70	-388.6	-71.1	372.4	345.0	27.45	13.567			
6,350.0	6,310.5	6,350.0	6,283.0	13.9	15.0	83.08	-388.6	-41.9	372.9	345.2	27.64	13.491			
6,400.0	6,350.7	6,395.9	6,317.8	14.0	15.0	82.51	-388.6	-11.9	373.3	345.5	27.89	13.388			
6,450.0	6,388.9	6,442.7	6,351.3	14.2	15.0	81.97	-388.6	20.8	373.8	345.6	28.22	13.247			
6,500.0	6,425.0	6,489.3	6,382.6	14.4	15.1	81.45	-388.6	55.2	374.3	345.7	28.65	13.065			
6,550.0	6,458.7	6,535.7	6,411.6	14.7	15.1	80.98	-388.6	91.4	374.8	345.6	29.21	12.832			
6,600.0	6,489.8	6,582.0	6,438.3	15.1	15.2	80.54	-388.6	129.2	375.3	345.4	29.88	12.557			
6,650.0	6,518.4	6,628.1	6,462.6	15.5	15.6	80.13	-388.6	168.4	375.7	345.0	30.71	12.234			
6,700.0	6,544.2	6,674.1	6,484.5	16.1	16.1	79.77	-388.6	208.8	376.1	344.4	31.69	11.869			
6,750.0	6,567.2	6,719.9	6,503.8	16.7	16.7	79.45	-388.6	250.4	376.5	343.7	32.82	11.471			
6,800.0	6,587.2	6,765.7	6,520.6	17.3	17.4	79.17	-388.6	293.0	376.9	342.8	34.11	11.048			
6,850.0	6,604.2	6,811.4	6,534.7	18.1	18.1	78.93	-388.6	336.5	377.2	341.6	35.55	10.610			
6,900.0	6,618.1	6,857.0	6,546.2	18.9	18.9	78.74	-388.6	380.6	377.4	340.3	37.12	10.168			
6,950.0	6,628.8	6,902.6	6,555.1	19.8	19.8	78.59	-388.6	425.3	377.6	338.8	38.82	9.728			
7,000.0	6,636.3	6,950.0	6,561.4	20.8	20.7	78.48	-388.6	472.3	377.8	337.1	40.66	9.291			
7,004.6	6,636.8	6,952.2	6,561.7	20.9	20.7	78.47	-388.6	474.5	377.8	337.0	40.79	9.260			
7,050.0	6,640.5	6,993.6	6,564.7	21.8	21.6	78.42	-388.6	515.7	377.8	335.3	42.52	8.886			
7,095.6	6,641.5	7,035.2	6,565.5	22.7	22.4	78.40	-388.6	557.4	377.9	333.5	44.32	8.526			
7,100.0	6,641.5	7,039.6	6,565.5	22.8	22.5	78.40	-388.6	561.7	377.9	333.4	44.50	8.490			
7,200.0	6,640.7	7,139.6	6,564.9	25.0	24.7	78.42	-388.6	661.7	377.8	329.0	48.80	7.742			
7,300.0	6,639.9	7,239.6	6,564.3	27.3	27.0	78.45	-388.6	761.7	377.8	324.5	53.31	7.087			
7,400.0	6,639.2	7,339.6	6,563.7	29.7	29.4	78.48	-388.6	861.7	377.8	319.8	58.00	6.513			
7,500.0	6,638.4	7,439.6	6,563.1	32.1	31.9	78.50	-388.6	961.7	377.7	314.9	62.82	6.013			
7,600.0	6,637.6	7,539.6	6,562.5	34.6	34.4	78.53	-388.6	1,061.7	377.7	309.9	67.75	5.575			
7,700.0	6,636.9	7,639.6	6,561.9	37.2	37.0	78.55	-388.6	1,161.7	377.7	304.9	72.76	5.190			
7,800.0	6,636.1	7,739.6	6,561.3	39.7	39.5	78.58	-388.6	1,261.7	377.6	299.8	77.84	4.851			
7,900.0	6,635.3	7,839.6	6,560.7	42.4	42.2	78.61	-388.6	1,361.7	377.6	294.6	82.98	4.550			
8,000.0	6,634.6	7,939.6	6,560.2	45.0	44.8	78.63	-388.6	1,461.7	377.5	289.4	88.17	4.282			
8,100.0	6,633.8	8,039.6	6,559.6	47.6	47.5	78.66	-388.6	1,561.7	377.5	284.1	93.40	4.042			
8,200.0	6,633.0	8,139.6	6,559.0	50.3	50.1	78.68	-388.6	1,661.7	377.5	278.8	98.66	3.826			

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
8,300.0	6,632.3	8,239.6	6,558.4	53.0	52.8	78.71	-388.6	1,761.7	377.4	273.5	103.95	3.631	
8,400.0	6,631.5	8,339.6	6,557.8	55.7	55.5	78.74	-388.6	1,861.7	377.4	268.2	109.26	3.454	
8,500.0	6,630.7	8,439.6	6,557.2	58.4	58.2	78.76	-388.6	1,961.7	377.4	262.8	114.59	3.293	
8,600.0	6,630.0	8,539.6	6,556.6	61.1	61.0	78.79	-388.6	2,061.7	377.3	257.4	119.94	3.146	
8,700.0	6,629.2	8,639.6	6,556.0	63.9	63.7	78.81	-388.6	2,161.7	377.3	252.0	125.31	3.011	
8,800.0	6,628.4	8,739.6	6,555.4	66.6	66.4	78.84	-388.6	2,261.7	377.3	246.6	130.69	2.887	
8,900.0	6,627.7	8,839.6	6,554.8	69.3	69.2	78.87	-388.6	2,361.7	377.2	241.2	136.09	2.772	
9,000.0	6,626.9	8,939.6	6,554.2	72.1	71.9	78.89	-388.6	2,461.7	377.2	235.7	141.49	2.666	
9,100.0	6,626.1	9,039.6	6,553.6	74.8	74.7	78.92	-388.6	2,561.7	377.2	230.3	146.91	2.567	
9,200.0	6,625.4	9,139.6	6,553.0	77.6	77.4	78.94	-388.6	2,661.7	377.1	224.8	152.33	2.476	
9,300.0	6,624.6	9,239.6	6,552.4	80.3	80.2	78.97	-388.6	2,761.7	377.1	219.3	157.77	2.390	
9,400.0	6,623.8	9,339.6	6,551.8	83.1	82.9	79.00	-388.6	2,861.7	377.1	213.9	163.21	2.310	
9,500.0	6,623.0	9,439.6	6,551.3	85.9	85.7	79.02	-388.6	2,961.7	377.0	208.4	168.66	2.236	
9,600.0	6,622.3	9,539.6	6,550.7	88.6	88.5	79.05	-388.6	3,061.7	377.0	202.9	174.11	2.165	
9,700.0	6,621.5	9,639.6	6,550.1	91.4	91.2	79.07	-388.6	3,161.7	377.0	197.4	179.57	2.099	
9,800.0	6,620.7	9,739.6	6,549.5	94.2	94.0	79.10	-388.6	3,261.7	376.9	191.9	185.04	2.037	
9,900.0	6,620.0	9,839.6	6,548.9	96.9	96.8	79.13	-388.6	3,361.7	376.9	186.4	190.51	1.978	
10,000.0	6,619.2	9,939.6	6,548.3	99.7	99.6	79.15	-388.6	3,461.7	376.9	180.9	195.98	1.923	
10,100.0	6,618.4	10,039.6	6,547.7	102.5	102.3	79.18	-388.6	3,561.7	376.8	175.4	201.46	1.871	
10,200.0	6,617.7	10,139.6	6,547.1	105.3	105.1	79.20	-388.6	3,661.7	376.8	169.9	206.95	1.821	
10,300.0	6,616.9	10,239.6	6,546.5	108.1	107.9	79.23	-388.6	3,761.7	376.8	164.3	212.43	1.774	
10,400.0	6,616.1	10,339.6	6,545.9	110.8	110.7	79.26	-388.6	3,861.7	376.7	158.8	217.93	1.729	
10,500.0	6,615.4	10,439.6	6,545.3	113.6	113.5	79.28	-388.6	3,961.7	376.7	153.3	223.42	1.686	
10,600.0	6,614.6	10,539.6	6,544.7	116.4	116.3	79.31	-388.6	4,061.7	376.7	147.8	228.92	1.645	
10,700.0	6,613.8	10,639.6	6,544.1	119.2	119.0	79.34	-388.6	4,161.7	376.6	142.2	234.42	1.607	
10,800.0	6,613.1	10,739.6	6,543.5	122.0	121.8	79.36	-388.6	4,261.7	376.6	136.7	239.92	1.570	
10,900.0	6,612.3	10,839.6	6,542.9	124.8	124.6	79.39	-388.6	4,361.7	376.6	131.2	245.43	1.534	
11,000.0	6,611.5	10,939.6	6,542.3	127.6	127.4	79.41	-388.6	4,461.7	376.6	125.6	250.94	1.501	
11,100.0	6,610.8	11,039.6	6,541.8	130.3	130.2	79.44	-388.6	4,561.7	376.5	120.1	256.45	1.468 Level 3	
11,200.0	6,610.0	11,139.6	6,541.2	133.1	133.0	79.47	-388.6	4,661.7	376.5	114.5	261.96	1.437 Level 3	
11,300.0	6,609.2	11,239.6	6,540.6	135.9	135.8	79.49	-388.6	4,761.7	376.5	109.0	267.48	1.407 Level 3	
11,400.0	6,608.5	11,339.6	6,540.0	138.7	138.6	79.52	-388.6	4,861.7	376.4	103.4	273.00	1.379 Level 3	
11,500.0	6,607.7	11,439.6	6,539.4	141.5	141.4	79.54	-388.6	4,961.7	376.4	97.9	278.52	1.351 Level 3	
11,600.0	6,606.9	11,539.6	6,538.8	144.3	144.2	79.57	-388.6	5,061.6	376.4	92.3	284.04	1.325 Level 3	
11,700.0	6,606.2	11,639.6	6,538.2	147.1	147.0	79.60	-388.6	5,161.6	376.3	86.8	289.57	1.300 Level 3	
11,800.0	6,605.4	11,739.6	6,537.6	149.9	149.8	79.62	-388.6	5,261.6	376.3	81.2	295.09	1.275 Level 3	
11,900.0	6,604.6	11,839.6	6,537.0	152.7	152.5	79.65	-388.6	5,361.6	376.3	75.6	300.62	1.252 Level 3	
12,000.0	6,603.8	11,939.6	6,536.4	155.5	155.3	79.67	-388.6	5,461.6	376.2	70.1	306.15	1.229 Level 2	
12,100.0	6,603.1	12,039.6	6,535.8	158.3	158.1	79.70	-388.6	5,561.6	376.2	64.5	311.69	1.207 Level 2	
12,200.0	6,602.3	12,139.6	6,535.2	161.1	160.9	79.73	-388.6	5,661.6	376.2	59.0	317.22	1.186 Level 2	
12,300.0	6,601.5	12,239.6	6,534.6	163.9	163.7	79.75	-388.6	5,761.6	376.1	53.4	322.75	1.165 Level 2	
12,400.0	6,600.8	12,339.6	6,534.0	166.7	166.5	79.78	-388.6	5,861.6	376.1	47.8	328.29	1.146 Level 2	
12,500.0	6,600.0	12,439.6	6,533.4	169.5	169.3	79.81	-388.6	5,961.6	376.1	42.2	333.83	1.127 Level 2	
12,600.0	6,599.2	12,539.6	6,532.9	172.3	172.1	79.83	-388.6	6,061.6	376.0	36.7	339.37	1.108 Level 2	
12,700.0	6,598.5	12,639.6	6,532.3	175.1	174.9	79.86	-388.6	6,161.6	376.0	31.1	344.91	1.090 Level 2	
12,800.0	6,597.7	12,739.6	6,531.7	177.9	177.7	79.88	-388.6	6,261.6	376.0	25.5	350.45	1.073 Level 2	
12,900.0	6,596.9	12,839.6	6,531.1	180.7	180.5	79.91	-388.6	6,361.6	376.0	20.0	356.00	1.056 Level 2	
13,000.0	6,596.2	12,939.6	6,530.5	183.5	183.3	79.94	-388.6	6,461.6	375.9	14.4	361.54	1.040 Level 2	
13,100.0	6,595.4	13,039.6	6,529.9	186.3	186.1	79.96	-388.6	6,561.6	375.9	8.8	367.09	1.024 Level 2	
13,200.0	6,594.6	13,139.6	6,529.3	189.1	188.9	79.99	-388.6	6,661.6	375.9	3.2	372.64	1.009 Level 2	
13,300.0	6,593.9	13,239.6	6,528.7	191.9	191.7	80.02	-388.6	6,761.6	375.8	-2.4	378.19	0.994 Level 1	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor					
13,400.0	6,593.1	13,339.6	6,528.1	194.7	194.5	80.04	-388.6	6,861.6	375.8	-7.9	383.74	0.979	Level 1				
13,500.0	6,592.3	13,439.6	6,527.5	197.5	197.3	80.07	-388.6	6,961.6	375.8	-13.5	389.29	0.965	Level 1				
13,600.0	6,591.6	13,539.6	6,526.9	200.3	200.1	80.09	-388.6	7,061.6	375.7	-19.1	394.85	0.952	Level 1				
13,700.0	6,590.8	13,639.6	6,526.3	203.1	202.9	80.12	-388.6	7,161.6	375.7	-24.7	400.40	0.938	Level 1				
13,800.0	6,590.0	13,739.6	6,525.7	205.9	205.7	80.15	-388.6	7,261.6	375.7	-30.3	405.96	0.925	Level 1				
13,900.0	6,589.3	13,839.6	6,525.1	208.7	208.5	80.17	-388.6	7,361.6	375.7	-35.9	411.51	0.913	Level 1				
14,000.0	6,588.5	13,939.6	6,524.5	211.5	211.4	80.20	-388.6	7,461.6	375.6	-41.4	417.07	0.901	Level 1				
14,100.0	6,587.7	14,039.6	6,524.0	214.3	214.2	80.22	-388.6	7,561.6	375.6	-47.0	422.63	0.889	Level 1				
14,200.0	6,587.0	14,139.6	6,523.4	217.1	217.0	80.25	-388.6	7,661.6	375.6	-52.6	428.19	0.877	Level 1				
14,300.0	6,586.2	14,239.6	6,522.8	219.9	219.8	80.28	-388.6	7,761.6	375.5	-58.2	433.75	0.866	Level 1				
14,400.0	6,585.4	14,339.6	6,522.2	222.7	222.6	80.30	-388.6	7,861.6	375.5	-63.8	439.31	0.855	Level 1				
14,500.0	6,584.7	14,439.6	6,521.6	225.5	225.4	80.33	-388.6	7,961.6	375.5	-69.4	444.88	0.844	Level 1				
14,600.0	6,583.9	14,539.6	6,521.0	228.3	228.2	80.36	-388.6	8,061.6	375.4	-75.0	450.44	0.834	Level 1				
14,700.0	6,583.1	14,639.6	6,520.4	231.1	231.0	80.38	-388.6	8,161.6	375.4	-80.6	456.01	0.823	Level 1				
14,800.0	6,582.3	14,739.6	6,519.8	233.9	233.8	80.41	-388.6	8,261.6	375.4	-86.2	461.57	0.813	Level 1				
14,900.0	6,581.6	14,839.6	6,519.2	236.7	236.6	80.43	-388.6	8,361.6	375.4	-91.8	467.14	0.804	Level 1				
15,000.0	6,580.8	14,939.6	6,518.6	239.5	239.4	80.46	-388.6	8,461.6	375.3	-97.4	472.71	0.794	Level 1				
15,100.0	6,580.0	15,039.6	6,518.0	242.3	242.2	80.49	-388.6	8,561.6	375.3	-103.0	478.28	0.785	Level 1				
15,200.0	6,579.3	15,139.6	6,517.4	245.1	245.0	80.51	-388.6	8,661.6	375.3	-108.6	483.85	0.776	Level 1				
15,300.0	6,578.5	15,239.6	6,516.8	247.9	247.8	80.54	-388.6	8,761.6	375.2	-114.2	489.42	0.767	Level 1				
15,400.0	6,577.7	15,339.6	6,516.2	250.8	250.6	80.57	-388.6	8,861.6	375.2	-119.8	494.99	0.758	Level 1				
15,500.0	6,577.0	15,439.6	6,515.6	253.6	253.4	80.59	-388.6	8,961.6	375.2	-125.4	500.57	0.750	Level 1				
15,600.0	6,576.2	15,539.6	6,515.1	256.4	256.2	80.62	-388.6	9,061.6	375.2	-131.0	506.14	0.741	Level 1				
15,700.0	6,575.4	15,639.6	6,514.5	259.2	259.0	80.65	-388.6	9,161.6	375.1	-136.6	511.72	0.733	Level 1				
15,800.0	6,574.7	15,739.6	6,513.9	262.0	261.8	80.67	-388.6	9,261.6	375.1	-142.2	517.29	0.725	Level 1				
15,900.0	6,573.9	15,839.6	6,513.3	264.8	264.6	80.70	-388.6	9,361.6	375.1	-147.8	522.87	0.717	Level 1				
16,000.0	6,573.1	15,939.6	6,512.7	267.6	267.4	80.72	-388.6	9,461.6	375.0	-153.4	528.45	0.710	Level 1				
16,100.0	6,572.4	16,039.6	6,512.1	270.4	270.2	80.75	-388.6	9,561.6	375.0	-159.0	534.02	0.702	Level 1				
16,200.0	6,571.6	16,139.6	6,511.5	273.2	273.1	80.78	-388.6	9,661.6	375.0	-164.6	539.60	0.695	Level 1				
16,277.5	6,571.0	16,217.1	6,511.0	275.4	275.2	80.80	-388.6	9,739.1	375.0	-169.0	543.93	0.689	Level 1, ES, SF				

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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													Offset Site Error:	0.0 ft
Survey Program: -10-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	-9.0	-9.0	0.0	0.0	-144.71	-24.4	-17.3	29.9	29.9	0.00	N/A		
100.0	100.0	91.0	91.0	0.1	0.2	-144.71	-24.4	-17.3	29.9	29.6	0.33	91.124		
200.0	200.0	191.0	191.0	0.3	0.4	-144.71	-24.4	-17.3	29.9	29.1	0.78	38.451		
300.0	300.0	291.0	291.0	0.6	0.7	-144.71	-24.4	-17.3	29.9	28.7	1.23	24.366		
400.0	400.0	391.0	391.0	0.8	0.9	-144.71	-24.4	-17.3	29.9	28.2	1.68	17.834		
500.0	500.0	491.0	491.0	1.0	1.1	-144.71	-24.4	-17.3	29.9	27.8	2.13	14.064		
600.0	600.0	591.0	591.0	1.2	1.3	-144.71	-24.4	-17.3	29.9	27.3	2.58	11.609		
700.0	700.0	691.0	691.0	1.5	1.6	-144.71	-24.4	-17.3	29.9	26.9	3.03	9.884		
800.0	800.0	791.0	791.0	1.7	1.8	-144.71	-24.4	-17.3	29.9	26.4	3.47	8.606		
900.0	900.0	891.0	891.0	1.9	2.0	-144.71	-24.4	-17.3	29.9	26.0	3.92	7.620		
966.3	966.3	957.3	957.3	2.1	2.2	-144.71	-24.4	-17.3	29.9	25.7	4.22	7.082 CC		
1,000.0	1,000.0	991.0	991.0	2.1	2.2	-144.71	-24.4	-17.3	29.9	25.5	4.37	6.837 ES		
1,100.0	1,100.0	1,090.2	1,090.2	2.4	2.4	-145.49	-25.7	-17.7	31.2	26.4	4.77	6.532		
1,200.0	1,200.0	1,189.3	1,189.2	2.6	2.6	-147.45	-29.4	-18.8	34.9	29.7	5.17	6.748		
1,300.0	1,300.0	1,288.2	1,287.9	2.8	2.8	-149.92	-35.6	-20.6	41.2	35.6	5.59	7.376		
1,400.0	1,400.0	1,386.6	1,385.9	3.0	3.0	-152.31	-44.1	-23.2	50.1	44.1	6.01	8.328		
1,500.0	1,500.0	1,484.5	1,483.1	3.3	3.2	-154.37	-55.0	-26.4	61.6	55.1	6.46	9.528		
1,600.0	1,600.0	1,581.8	1,579.4	3.5	3.4	-156.03	-68.3	-30.3	75.6	68.7	6.93	10.909		
1,700.0	1,700.0	1,678.3	1,674.6	3.7	3.7	-157.34	-83.7	-34.9	92.2	84.7	7.42	12.415		
1,800.0	1,800.0	1,776.4	1,771.1	3.9	4.0	-158.33	-100.7	-40.0	110.2	102.3	7.95	13.864		
1,900.0	1,900.0	1,874.8	1,867.8	4.2	4.3	-159.05	-117.8	-45.1	128.3	119.8	8.49	15.104		
2,000.0	2,000.0	1,973.1	1,964.5	4.4	4.7	-159.59	-134.9	-50.2	146.4	137.4	9.05	16.173		
2,100.0	2,100.0	2,071.4	2,061.2	4.6	5.0	-160.01	-152.1	-55.3	164.5	154.9	9.62	17.098		
2,200.0	2,200.0	2,169.8	2,157.9	4.8	5.4	-160.34	-169.2	-60.4	182.7	172.5	10.20	17.905		
2,300.0	2,300.0	2,268.1	2,254.6	5.1	5.7	-160.62	-186.3	-65.5	200.8	190.0	10.79	18.614		
2,400.0	2,400.0	2,366.4	2,351.3	5.3	6.1	-160.85	-203.4	-70.6	218.9	207.5	11.38	19.240		
2,500.0	2,500.0	2,464.8	2,448.0	5.5	6.5	-161.05	-220.5	-75.7	237.1	225.1	11.98	19.795		
2,600.0	2,600.0	2,563.1	2,544.7	5.7	6.9	-161.21	-237.6	-80.8	255.2	242.6	12.58	20.292		
2,700.0	2,700.0	2,661.5	2,641.4	6.0	7.2	-161.36	-254.7	-85.9	273.3	260.1	13.18	20.738		
2,800.0	2,800.0	2,759.8	2,738.1	6.2	7.6	-161.49	-271.8	-91.0	291.5	277.7	13.79	21.140		
2,900.0	2,900.0	2,858.2	2,834.9	6.4	8.0	-166.61	-288.9	-96.1	309.3	296.6	12.70	24.361		
3,000.0	3,000.0	2,956.7	2,931.7	6.6	8.4	-166.97	-306.0	-101.2	326.4	313.3	13.13	24.854		
3,100.0	3,099.9	3,055.2	3,028.6	6.8	8.8	-167.55	-323.2	-106.3	342.9	329.3	13.58	25.260		
3,200.0	3,199.7	3,153.8	3,125.5	7.0	9.2	-168.34	-340.3	-111.4	358.8	344.8	14.02	25.589		
3,300.0	3,299.4	3,252.3	3,222.5	7.2	9.6	-169.30	-357.5	-116.6	374.2	359.7	14.48	25.849		
3,400.0	3,398.9	3,350.9	3,319.4	7.4	10.0	-170.42	-374.6	-121.7	389.2	374.2	14.94	26.046		
3,500.0	3,498.3	3,449.3	3,416.2	7.6	10.4	-171.68	-391.7	-126.8	403.7	388.3	15.42	26.187		
3,536.2	3,534.1	3,484.9	3,451.2	7.7	10.5	-172.17	-397.9	-128.6	408.9	393.3	15.59	26.224		
3,600.0	3,597.4	3,547.7	3,512.9	7.9	10.8	-173.11	-408.9	-131.9	418.1	402.2	15.91	26.284		
3,700.0	3,696.6	3,646.1	3,609.7	8.1	11.2	-174.51	-426.0	-137.0	432.8	416.3	16.41	26.370		
3,800.0	3,795.8	3,744.5	3,706.4	8.4	11.6	-175.82	-443.1	-142.1	447.6	430.7	16.92	26.447		
3,900.0	3,895.0	3,842.9	3,803.2	8.6	12.0	-177.04	-460.2	-147.2	462.7	445.3	17.45	26.517		
4,000.0	3,994.2	3,941.2	3,899.9	8.9	12.4	-178.19	-477.3	-152.3	478.0	460.0	17.98	26.580		
4,100.0	4,093.3	4,039.6	3,996.7	9.2	12.8	-179.27	-494.4	-157.4	493.4	474.9	18.53	26.636		
4,200.0	4,192.5	4,138.0	4,093.4	9.4	13.2	-180.28	-511.5	-162.5	509.0	490.0	19.08	26.685		
4,300.0	4,291.7	4,236.4	4,190.2	9.7	13.6	-181.23	-528.7	-167.6	524.8	505.2	19.63	26.730		
4,400.0	4,390.9	4,334.8	4,286.9	10.0	14.0	-182.13	-545.8	-172.7	540.7	520.5	20.20	26.769		
4,500.0	4,490.0	4,433.2	4,383.7	10.3	14.4	-182.97	-562.9	-177.8	556.7	535.9	20.77	26.804		
4,600.0	4,589.2	4,531.5	4,480.4	10.5	14.8	-183.77	-580.0	-182.9	572.8	551.5	21.35	26.836		
4,644.1	4,632.9	4,574.9	4,523.1	10.7	15.0	-184.11	-587.5	-185.1	580.0	558.4	21.60	26.848		
4,700.0	4,688.4	4,630.0	4,577.2	10.8	15.2	-184.66	-597.1	-188.0	589.1	567.2	21.91	26.882		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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													Offset Site Error:		0.0 ft
Survey Program: -10-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
4,800.0	4,788.0	4,728.5	4,674.1	11.0	15.6	-85.36	-614.3	-193.1	605.7	583.3	22.43	27.007			
4,900.0	4,887.9	4,827.0	4,771.0	11.2	16.0	-85.72	-631.4	-198.2	622.6	599.7	22.91	27.172			
5,000.0	4,987.8	4,949.7	4,892.0	11.4	16.4	-85.72	-650.6	-203.9	638.1	614.7	23.39	27.285			
5,012.2	5,000.0	4,965.0	4,907.2	11.5	16.4	179.33	-652.7	-204.5	639.8	613.0	26.80	23.873			
5,100.0	5,087.8	5,076.1	5,017.5	11.6	16.7	179.67	-665.2	-208.3	649.7	622.4	27.25	23.841			
5,200.0	5,187.8	5,203.7	5,144.7	11.8	16.9	179.92	-674.6	-211.1	657.0	629.3	27.73	23.692			
5,300.0	5,287.8	5,331.9	5,272.8	12.0	17.1	-179.98	-678.5	-212.2	660.0	631.9	28.15	23.445			
5,400.0	5,387.8	5,437.9	5,378.8	12.2	17.3	-179.98	-678.6	-212.3	660.1	631.6	28.52	23.150			
5,500.0	5,487.8	5,537.9	5,478.8	12.5	17.4	-179.98	-678.6	-212.3	660.1	631.3	28.86	22.873			
5,600.0	5,587.8	5,637.9	5,578.8	12.7	17.5	-179.98	-678.6	-212.3	660.1	630.9	29.21	22.601			
5,700.0	5,687.8	5,737.9	5,678.8	12.9	17.6	-179.98	-678.6	-212.3	660.1	630.6	29.56	22.334			
5,800.0	5,787.8	5,837.9	5,778.8	13.1	17.8	-179.98	-678.6	-212.3	660.1	630.2	29.91	22.071			
5,889.8	5,877.6	5,927.7	5,868.6	13.3	17.9	-179.98	-678.6	-212.3	660.1	629.9	30.23	21.839			
5,900.0	5,887.8	5,937.9	5,878.8	13.3	17.9	90.03	-678.6	-212.3	660.1	633.1	27.02	24.433			
5,950.0	5,937.8	5,987.9	5,928.8	13.4	18.0	90.08	-678.6	-210.6	660.1	633.0	27.18	24.287			
6,000.0	5,987.4	6,038.0	5,978.6	13.5	18.0	90.13	-678.6	-205.6	660.1	632.8	27.32	24.164			
6,050.0	6,036.7	6,088.1	6,028.1	13.5	18.1	90.18	-678.6	-197.3	660.1	632.7	27.44	24.061			
6,100.0	6,085.2	6,138.3	6,076.9	13.6	18.1	90.23	-678.6	-185.8	660.1	632.6	27.54	23.974			
6,150.0	6,132.8	6,188.5	6,124.9	13.6	18.1	90.28	-678.6	-171.1	660.1	632.5	27.63	23.896			
6,200.0	6,179.4	6,238.7	6,171.8	13.7	18.2	90.33	-678.6	-153.3	660.1	632.4	27.71	23.819			
6,250.0	6,224.6	6,289.0	6,217.5	13.7	18.2	90.37	-678.6	-132.5	660.1	632.3	27.81	23.734			
6,300.0	6,268.4	6,339.3	6,261.8	13.8	18.2	90.42	-678.6	-108.6	660.2	632.2	27.94	23.627			
6,350.0	6,310.5	6,389.6	6,304.5	13.9	18.2	90.46	-678.6	-81.9	660.2	632.0	28.11	23.486			
6,400.0	6,350.7	6,440.0	6,345.3	14.0	18.3	90.50	-678.6	-52.4	660.2	631.8	28.34	23.296			
6,450.0	6,388.9	6,490.4	6,384.1	14.2	18.3	90.54	-678.6	-20.3	660.2	631.5	28.65	23.043			
6,500.0	6,425.0	6,540.8	6,420.7	14.4	18.3	90.57	-678.6	14.4	660.2	631.1	29.06	22.714			
6,550.0	6,458.7	6,591.2	6,455.0	14.7	18.4	90.61	-678.6	51.4	660.2	630.6	29.60	22.302			
6,600.0	6,489.8	6,641.7	6,486.7	15.1	18.4	90.64	-678.6	90.6	660.2	629.9	30.28	21.801			
6,650.0	6,518.4	6,692.2	6,515.8	15.5	18.5	90.67	-678.6	131.8	660.2	629.1	31.12	21.214			
6,700.0	6,544.2	6,742.7	6,542.2	16.1	18.6	90.69	-678.6	174.9	660.2	628.1	32.12	20.552			
6,750.0	6,567.2	6,793.2	6,565.6	16.7	18.8	90.72	-678.6	219.7	660.2	626.9	33.30	19.828			
6,800.0	6,587.2	6,843.8	6,586.1	17.3	19.2	90.73	-678.6	265.9	660.2	625.5	34.64	19.059			
6,850.0	6,604.2	6,894.4	6,603.4	18.1	19.6	90.75	-678.6	313.4	660.2	624.0	36.14	18.266			
6,900.0	6,618.1	6,944.9	6,617.6	18.9	20.2	90.76	-678.6	361.9	660.2	622.4	37.80	17.467			
6,950.0	6,628.8	6,995.5	6,628.5	19.8	20.9	90.77	-678.6	411.3	660.2	620.6	39.58	16.678			
7,000.0	6,636.3	7,046.1	6,636.2	20.8	21.7	90.78	-678.6	461.3	660.2	618.7	41.49	15.913			
7,050.0	6,640.5	7,096.7	6,640.5	21.8	22.7	90.78	-678.6	511.7	660.2	616.7	43.48	15.182			
7,095.6	6,641.5	7,142.9	6,641.5	22.7	23.6	90.78	-678.6	557.9	660.2	614.8	45.37	14.551			
7,100.0	6,641.5	7,147.3	6,641.5	22.8	23.6	90.78	-678.6	562.3	660.2	614.6	45.56	14.492			
7,200.0	6,640.7	7,247.3	6,640.7	25.0	25.7	90.78	-678.6	662.3	660.2	610.3	49.90	13.230			
7,300.0	6,639.9	7,347.3	6,639.9	27.3	27.9	90.78	-678.6	762.2	660.2	605.7	54.47	12.121			
7,400.0	6,639.2	7,447.3	6,639.2	29.7	30.2	90.78	-678.6	862.2	660.2	601.0	59.21	11.149			
7,500.0	6,638.4	7,547.3	6,638.4	32.1	32.6	90.78	-678.6	962.2	660.2	596.1	64.10	10.299			
7,600.0	6,637.6	7,647.3	6,637.6	34.6	35.1	90.78	-678.6	1,062.2	660.2	591.1	69.10	9.554			
7,700.0	6,636.9	7,747.3	6,636.9	37.2	37.6	90.78	-678.6	1,162.2	660.2	586.0	74.19	8.899			
7,800.0	6,636.1	7,847.3	6,636.1	39.7	40.1	90.78	-678.6	1,262.2	660.2	580.8	79.35	8.320			
7,900.0	6,635.3	7,947.3	6,635.3	42.4	42.7	90.78	-678.6	1,362.2	660.2	575.6	84.57	7.806			
8,000.0	6,634.6	8,047.3	6,634.6	45.0	45.3	90.78	-678.6	1,462.2	660.2	570.4	89.84	7.349			
8,100.0	6,633.8	8,147.3	6,633.8	47.6	48.0	90.78	-678.6	1,562.2	660.2	565.0	95.15	6.939			
8,200.0	6,633.0	8,247.3	6,633.0	50.3	50.6	90.78	-678.6	1,662.2	660.2	559.7	100.49	6.570			
8,300.0	6,632.3	8,347.3	6,632.3	53.0	53.3	90.78	-678.6	1,762.2	660.2	554.3	105.86	6.237			

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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												Offset Site Error:	0.0 ft
Survey Program: -10-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
8,400.0	6,631.5	8,447.3	6,631.5	55.7	56.0	90.78	-678.6	1,862.2	660.2	548.9	111.25	5.934	
8,500.0	6,630.7	8,547.3	6,630.7	58.4	58.7	90.78	-678.6	1,962.2	660.2	543.5	116.67	5.659	
8,600.0	6,630.0	8,647.3	6,630.0	61.1	61.4	90.78	-678.6	2,062.2	660.2	538.1	122.11	5.407	
8,700.0	6,629.2	8,747.3	6,629.2	63.9	64.1	90.78	-678.6	2,162.2	660.2	532.6	127.56	5.176	
8,800.0	6,628.4	8,847.3	6,628.4	66.6	66.8	90.78	-678.6	2,262.2	660.2	527.2	133.02	4.963	
8,900.0	6,627.7	8,947.3	6,627.7	69.3	69.5	90.78	-678.6	2,362.2	660.2	521.7	138.50	4.767	
9,000.0	6,626.9	9,047.3	6,626.9	72.1	72.2	90.78	-678.6	2,462.2	660.2	516.2	143.99	4.585	
9,100.0	6,626.1	9,147.3	6,626.1	74.8	75.0	90.78	-678.6	2,562.2	660.2	510.7	149.49	4.416	
9,200.0	6,625.4	9,247.3	6,625.4	77.6	77.7	90.78	-678.6	2,662.2	660.2	505.2	154.99	4.260	
9,300.0	6,624.6	9,347.3	6,624.6	80.3	80.5	90.78	-678.6	2,762.2	660.2	499.7	160.51	4.113	
9,400.0	6,623.8	9,447.3	6,623.8	83.1	83.2	90.78	-678.6	2,862.2	660.2	494.2	166.03	3.976	
9,500.0	6,623.0	9,547.3	6,623.1	85.9	86.0	90.78	-678.6	2,962.2	660.2	488.6	171.56	3.848	
9,600.0	6,622.3	9,647.3	6,622.3	88.6	88.7	90.78	-678.6	3,062.2	660.2	483.1	177.09	3.728	
9,700.0	6,621.5	9,747.3	6,621.5	91.4	91.5	90.78	-678.6	3,162.2	660.2	477.6	182.63	3.615	
9,800.0	6,620.7	9,847.3	6,620.7	94.2	94.3	90.78	-678.6	3,262.2	660.2	472.0	188.17	3.508	
9,900.0	6,620.0	9,947.3	6,620.0	96.9	97.0	90.78	-678.6	3,362.2	660.2	466.5	193.72	3.408	
10,000.0	6,619.2	10,047.3	6,619.2	99.7	99.8	90.78	-678.6	3,462.2	660.2	460.9	199.27	3.313	
10,100.0	6,618.4	10,147.3	6,618.4	102.5	102.6	90.78	-678.6	3,562.2	660.2	455.4	204.83	3.223	
10,200.0	6,617.7	10,247.3	6,617.7	105.3	105.4	90.78	-678.6	3,662.2	660.2	449.8	210.39	3.138	
10,300.0	6,616.9	10,347.3	6,616.9	108.1	108.1	90.78	-678.6	3,762.2	660.2	444.2	215.95	3.057	
10,400.0	6,616.1	10,447.3	6,616.1	110.8	110.9	90.78	-678.6	3,862.2	660.2	438.7	221.52	2.980	
10,500.0	6,615.4	10,547.3	6,615.4	113.6	113.7	90.78	-678.6	3,962.2	660.2	433.1	227.08	2.907	
10,600.0	6,614.6	10,647.3	6,614.6	116.4	116.5	90.78	-678.6	4,062.2	660.2	427.5	232.65	2.838	
10,700.0	6,613.8	10,747.3	6,613.8	119.2	119.3	90.78	-678.6	4,162.1	660.2	422.0	238.23	2.771	
10,800.0	6,613.1	10,847.3	6,613.1	122.0	122.0	90.78	-678.6	4,262.1	660.2	416.4	243.80	2.708	
10,900.0	6,612.3	10,947.3	6,612.3	124.8	124.8	90.78	-678.6	4,362.1	660.2	410.8	249.38	2.647	
11,000.0	6,611.5	11,047.3	6,611.5	127.6	127.6	90.78	-678.6	4,462.1	660.2	405.2	254.96	2.589	
11,100.0	6,610.8	11,147.3	6,610.8	130.3	130.4	90.78	-678.6	4,562.1	660.2	399.7	260.54	2.534	
11,200.0	6,610.0	11,247.3	6,610.0	133.1	133.2	90.78	-678.6	4,662.1	660.2	394.1	266.12	2.481	
11,300.0	6,609.2	11,347.3	6,609.2	135.9	136.0	90.78	-678.6	4,762.1	660.2	388.5	271.70	2.430	
11,400.0	6,608.5	11,447.3	6,608.5	138.7	138.8	90.78	-678.6	4,862.1	660.2	382.9	277.29	2.381	
11,500.0	6,607.7	11,547.3	6,607.7	141.5	141.6	90.78	-678.6	4,962.1	660.2	377.3	282.88	2.334	
11,600.0	6,606.9	11,647.3	6,606.9	144.3	144.3	90.78	-678.6	5,062.1	660.2	371.7	288.46	2.289	
11,700.0	6,606.2	11,747.3	6,606.2	147.1	147.1	90.78	-678.6	5,162.1	660.2	366.1	294.05	2.245	
11,800.0	6,605.4	11,847.3	6,605.4	149.9	149.9	90.78	-678.6	5,262.1	660.2	360.6	299.64	2.203	
11,900.0	6,604.6	11,947.3	6,604.6	152.7	152.7	90.78	-678.6	5,362.1	660.2	355.0	305.23	2.163	
12,000.0	6,603.8	12,047.3	6,603.9	155.5	155.5	90.78	-678.6	5,462.1	660.2	349.4	310.83	2.124	
12,100.0	6,603.1	12,147.3	6,603.1	158.3	158.3	90.78	-678.6	5,562.1	660.2	343.8	316.42	2.086	
12,200.0	6,602.3	12,247.3	6,602.3	161.1	161.1	90.78	-678.6	5,662.1	660.2	338.2	322.01	2.050	
12,300.0	6,601.5	12,347.3	6,601.6	163.9	163.9	90.78	-678.6	5,762.1	660.2	332.6	327.61	2.015	
12,400.0	6,600.8	12,447.3	6,600.8	166.7	166.7	90.78	-678.6	5,862.1	660.2	327.0	333.20	1.981	
12,500.0	6,600.0	12,547.3	6,600.0	169.5	169.5	90.78	-678.6	5,962.1	660.2	321.4	338.80	1.949	
12,600.0	6,599.2	12,647.3	6,599.2	172.3	172.3	90.78	-678.6	6,062.1	660.2	315.8	344.40	1.917	
12,700.0	6,598.5	12,747.3	6,598.5	175.1	175.1	90.78	-678.6	6,162.1	660.2	310.2	350.00	1.886	
12,800.0	6,597.7	12,847.3	6,597.7	177.9	177.9	90.78	-678.6	6,262.1	660.2	304.6	355.60	1.857	
12,900.0	6,596.9	12,947.3	6,596.9	180.7	180.7	90.78	-678.6	6,362.1	660.2	299.0	361.20	1.828	
13,000.0	6,596.2	13,047.3	6,596.2	183.5	183.5	90.78	-678.6	6,462.1	660.2	293.4	366.80	1.800	
13,100.0	6,595.4	13,147.3	6,595.4	186.3	186.3	90.78	-678.6	6,562.1	660.2	287.8	372.40	1.773	
13,200.0	6,594.6	13,247.3	6,594.6	189.1	189.1	90.78	-678.6	6,662.1	660.2	282.2	378.00	1.747	
13,300.0	6,593.9	13,347.3	6,593.9	191.9	191.9	90.78	-678.6	6,762.1	660.2	276.6	383.60	1.721	
13,400.0	6,593.1	13,447.3	6,593.1	194.7	194.7	90.78	-678.6	6,862.1	660.2	271.0	389.20	1.696	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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: -10-MWD												Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
13,500.0	6,592.3	13,547.3	6,592.3	197.5	197.5	90.78	-678.6	6,962.1	660.2	265.4	394.80	1.672		
13,600.0	6,591.6	13,647.3	6,591.6	200.3	200.3	90.78	-678.6	7,062.1	660.2	259.8	400.41	1.649		
13,700.0	6,590.8	13,747.3	6,590.8	203.1	203.1	90.78	-678.6	7,162.1	660.2	254.2	406.01	1.626		
13,800.0	6,590.0	13,847.3	6,590.0	205.9	205.9	90.78	-678.6	7,262.1	660.2	248.6	411.61	1.604		
13,900.0	6,589.3	13,947.3	6,589.3	208.7	208.7	90.78	-678.6	7,362.1	660.2	243.0	417.22	1.582		
14,000.0	6,588.5	14,047.3	6,588.5	211.5	211.5	90.78	-678.6	7,462.1	660.2	237.4	422.82	1.561		
14,100.0	6,587.7	14,147.3	6,587.7	214.3	214.3	90.78	-678.6	7,562.0	660.2	231.8	428.43	1.541		
14,200.0	6,587.0	14,247.3	6,587.0	217.1	217.1	90.78	-678.6	7,662.0	660.2	226.2	434.04	1.521		
14,300.0	6,586.2	14,347.3	6,586.2	219.9	219.9	90.78	-678.6	7,762.0	660.2	220.6	439.64	1.502		
14,400.0	6,585.4	14,447.3	6,585.4	222.7	222.7	90.78	-678.6	7,862.0	660.2	214.9	445.25	1.483 Level 3		
14,500.0	6,584.7	14,547.3	6,584.7	225.5	225.5	90.78	-678.6	7,962.0	660.2	209.3	450.85	1.464 Level 3		
14,600.0	6,583.9	14,647.3	6,583.9	228.3	228.3	90.78	-678.6	8,062.0	660.2	203.7	456.46	1.446 Level 3		
14,700.0	6,583.1	14,747.3	6,583.1	231.1	231.1	90.78	-678.6	8,162.0	660.2	198.1	462.07	1.429 Level 3		
14,800.0	6,582.3	14,847.3	6,582.4	233.9	233.9	90.78	-678.6	8,262.0	660.2	192.5	467.68	1.412 Level 3		
14,900.0	6,581.6	14,947.3	6,581.6	236.7	236.7	90.78	-678.6	8,362.0	660.2	186.9	473.28	1.395 Level 3		
15,000.0	6,580.8	15,047.3	6,580.8	239.5	239.5	90.78	-678.6	8,462.0	660.2	181.3	478.89	1.379 Level 3		
15,100.0	6,580.0	15,147.3	6,580.0	242.3	242.3	90.78	-678.6	8,562.0	660.2	175.7	484.50	1.363 Level 3		
15,200.0	6,579.3	15,247.3	6,579.3	245.1	245.1	90.78	-678.6	8,662.0	660.2	170.1	490.11	1.347 Level 3		
15,300.0	6,578.5	15,347.3	6,578.5	247.9	247.9	90.78	-678.6	8,762.0	660.2	164.5	495.72	1.332 Level 3		
15,400.0	6,577.7	15,447.3	6,577.7	250.8	250.7	90.78	-678.6	8,862.0	660.2	158.9	501.33	1.317 Level 3		
15,500.0	6,577.0	15,547.3	6,577.0	253.6	253.5	90.78	-678.6	8,962.0	660.2	153.3	506.94	1.302 Level 3		
15,600.0	6,576.2	15,647.3	6,576.2	256.4	256.3	90.78	-678.6	9,062.0	660.2	147.6	512.55	1.288 Level 3		
15,700.0	6,575.4	15,747.3	6,575.4	259.2	259.1	90.78	-678.6	9,162.0	660.2	142.0	518.16	1.274 Level 3		
15,800.0	6,574.7	15,847.3	6,574.7	262.0	261.9	90.78	-678.6	9,262.0	660.2	136.4	523.77	1.260 Level 3		
15,900.0	6,573.9	15,947.3	6,573.9	264.8	264.7	90.78	-678.6	9,362.0	660.2	130.8	529.38	1.247 Level 2		
16,000.0	6,573.1	16,047.3	6,573.1	267.6	267.5	90.78	-678.6	9,462.0	660.2	125.2	534.99	1.234 Level 2		
16,100.0	6,572.4	16,147.3	6,572.4	270.4	270.3	90.78	-678.6	9,562.0	660.2	119.6	540.60	1.221 Level 2		
16,200.0	6,571.6	16,247.3	6,571.6	273.2	273.1	90.78	-678.6	9,662.0	660.2	114.0	546.21	1.209 Level 2		
16,277.5	6,571.0	16,324.8	6,571.0	275.4	275.3	90.78	-678.6	9,739.5	660.2	109.6	550.56	1.199 Level 2, SF		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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													Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	1.0	1.0	0.0	0.0	-144.85	-36.8	-25.9	45.0	45.0	0.00	N/A			
100.0	100.0	101.0	101.0	0.1	0.1	-144.85	-36.8	-25.9	45.0	44.8	0.23	198.241			
200.0	200.0	201.0	201.0	0.3	0.3	-144.85	-36.8	-25.9	45.0	44.3	0.68	66.519			
300.0	300.0	301.0	301.0	0.6	0.6	-144.85	-36.8	-25.9	45.0	43.9	1.13	39.965			
400.0	400.0	401.0	401.0	0.8	0.8	-144.85	-36.8	-25.9	45.0	43.4	1.58	28.563			
500.0	500.0	501.0	501.0	1.0	1.0	-144.85	-36.8	-25.9	45.0	43.0	2.03	22.222			
600.0	600.0	601.0	601.0	1.2	1.2	-144.85	-36.8	-25.9	45.0	42.5	2.47	18.186			
700.0	700.0	701.0	701.0	1.5	1.5	-144.85	-36.8	-25.9	45.0	42.1	2.92	15.390			
766.3	766.3	767.3	767.3	1.6	1.6	-144.85	-36.8	-25.9	45.0	41.8	3.22	13.966 CC			
800.0	800.0	801.0	801.0	1.7	1.7	-144.85	-36.8	-25.9	45.0	41.6	3.37	13.341 ES			
900.0	900.0	900.0	900.0	1.9	1.9	-145.51	-38.1	-26.2	46.2	42.4	3.79	12.184			
1,000.0	1,000.0	998.7	998.6	2.1	2.1	-147.28	-41.9	-26.9	49.8	45.6	4.19	11.881			
1,100.0	1,100.0	1,097.2	1,096.9	2.4	2.2	-149.70	-48.1	-28.1	55.9	51.3	4.61	12.134			
1,200.0	1,200.0	1,195.3	1,194.6	2.6	2.5	-152.31	-56.9	-29.8	64.5	59.5	5.04	12.810			
1,300.0	1,300.0	1,292.9	1,291.5	2.8	2.7	-154.79	-68.0	-32.0	75.7	70.2	5.49	13.797			
1,400.0	1,400.0	1,389.9	1,387.5	3.0	2.9	-156.96	-81.4	-34.6	89.5	83.5	5.96	15.004			
1,500.0	1,500.0	1,486.1	1,482.4	3.3	3.2	-158.78	-97.1	-37.7	105.8	99.3	6.47	16.353			
1,600.0	1,600.0	1,581.4	1,576.0	3.5	3.5	-160.29	-115.0	-41.2	124.7	117.7	7.01	17.785			
1,700.0	1,700.0	1,675.7	1,668.1	3.7	3.9	-161.52	-134.9	-45.1	146.0	138.4	7.58	19.258			
1,800.0	1,800.0	1,772.8	1,762.6	3.9	4.3	-162.52	-156.7	-49.3	168.7	160.5	8.19	20.587			
1,900.0	1,900.0	1,870.2	1,857.4	4.2	4.7	-163.29	-178.6	-53.6	191.5	182.7	8.83	21.695			
2,000.0	2,000.0	1,967.5	1,952.1	4.4	5.1	-163.89	-200.4	-57.9	214.3	204.8	9.47	22.626			
2,100.0	2,100.0	2,064.9	2,046.9	4.6	5.5	-164.38	-222.3	-62.2	237.1	227.0	10.12	23.418			
2,200.0	2,200.0	2,162.2	2,141.7	4.8	6.0	-164.78	-244.2	-66.4	259.9	249.1	10.79	24.099			
2,300.0	2,300.0	2,259.6	2,236.4	5.1	6.4	-165.12	-266.0	-70.7	282.7	271.3	11.45	24.688			
2,400.0	2,400.0	2,356.9	2,331.2	5.3	6.9	-165.40	-287.9	-75.0	305.6	293.5	12.12	25.203			
2,500.0	2,500.0	2,454.3	2,425.9	5.5	7.3	-165.65	-309.8	-79.3	328.4	315.6	12.80	25.656			
2,600.0	2,600.0	2,551.6	2,520.7	5.7	7.8	-165.86	-331.6	-83.5	351.3	337.8	13.48	26.058			
2,700.0	2,700.0	2,649.0	2,615.5	6.0	8.2	-166.05	-353.5	-87.8	374.1	360.0	14.16	26.417			
2,800.0	2,800.0	2,746.3	2,710.2	6.2	8.7	-166.22	-375.4	-92.1	397.0	382.2	14.85	26.738			
2,900.0	2,900.0	2,843.7	2,805.0	6.4	9.2	-71.29	-397.2	-96.3	419.6	406.8	12.79	32.816			
3,000.0	3,000.0	2,941.2	2,899.9	6.6	9.6	-71.53	-419.1	-100.6	441.7	428.4	13.24	33.361			
3,100.0	3,099.9	3,038.7	2,994.9	6.8	10.1	-71.94	-441.1	-104.9	463.2	449.5	13.70	33.825			
3,200.0	3,199.7	3,136.2	3,089.8	7.0	10.6	-72.51	-463.0	-109.2	484.3	470.2	14.16	34.214			
3,300.0	3,299.4	3,233.8	3,184.8	7.2	11.0	-73.20	-484.9	-113.5	505.0	490.4	14.62	34.536			
3,400.0	3,398.9	3,331.3	3,279.7	7.4	11.5	-74.01	-506.8	-117.8	525.4	510.3	15.10	34.795			
3,500.0	3,498.3	3,428.7	3,374.5	7.6	12.0	-74.93	-528.7	-122.0	545.4	529.8	15.59	34.994			
3,536.2	3,534.1	3,463.9	3,408.8	7.7	12.2	-75.28	-536.6	-123.6	552.6	536.8	15.76	35.051			
3,600.0	3,597.4	3,526.1	3,469.3	7.9	12.5	-76.03	-550.5	-126.3	565.3	549.2	16.08	35.146			
3,700.0	3,696.6	3,623.4	3,564.1	8.1	12.9	-77.13	-572.4	-130.6	585.4	568.8	16.59	35.278			
3,800.0	3,795.8	3,720.8	3,658.8	8.4	13.4	-78.16	-594.3	-134.9	605.7	588.5	17.11	35.391			
3,900.0	3,895.0	3,818.1	3,753.6	8.6	13.9	-79.12	-616.1	-139.1	626.1	608.5	17.64	35.487			
4,000.0	3,994.2	3,915.5	3,848.4	8.9	14.3	-80.03	-638.0	-143.4	646.7	628.5	18.18	35.568			
4,100.0	4,093.3	4,012.8	3,943.2	9.2	14.8	-80.87	-659.9	-147.7	667.5	648.8	18.73	35.636			
4,200.0	4,192.5	4,110.2	4,037.9	9.4	15.3	-81.67	-681.7	-151.9	688.4	669.1	19.29	35.692			
4,300.0	4,291.7	4,207.6	4,132.7	9.7	15.8	-82.42	-703.6	-156.2	709.4	689.6	19.85	35.739			
4,400.0	4,390.9	4,304.9	4,227.5	10.0	16.2	-83.13	-725.5	-160.5	730.5	710.1	20.42	35.776			
4,500.0	4,490.0	4,402.3	4,322.2	10.3	16.7	-83.79	-747.4	-164.8	751.8	730.8	21.00	35.805			
4,600.0	4,589.2	4,499.6	4,417.0	10.5	17.2	-84.43	-769.2	-169.0	773.1	751.5	21.58	35.828			
4,644.1	4,632.9	4,542.5	4,458.8	10.7	17.4	-84.69	-778.9	-170.9	782.5	760.7	21.84	35.836			
4,700.0	4,688.4	4,597.0	4,511.8	10.8	17.7	-85.23	-791.1	-173.3	794.5	772.4	22.15	35.862			

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
4,800.0	4,788.0	4,694.5	4,606.7	11.0	18.1	-85.98	-813.0	-177.6	816.3	793.6	22.68	35.983	
4,900.0	4,887.9	4,792.0	4,701.7	11.2	18.6	-86.47	-834.9	-181.9	838.3	815.1	23.19	36.146	
5,000.0	4,987.8	4,889.5	4,796.5	11.4	19.1	-86.73	-856.8	-186.2	860.5	836.8	23.67	36.353	
5,012.2	5,000.0	4,901.3	4,808.1	11.5	19.2	178.28	-859.5	-186.7	863.2	833.6	29.62	29.141	
5,100.0	5,087.8	4,986.9	4,891.3	11.6	19.6	178.56	-878.7	-190.4	882.9	852.6	30.22	29.211	
5,200.0	5,187.8	5,084.2	4,986.1	11.8	20.1	178.88	-900.5	-194.7	905.2	874.3	30.93	29.272	
5,300.0	5,287.8	5,199.0	5,097.9	12.0	20.6	179.22	-925.8	-199.6	927.3	895.6	31.67	29.281	
5,400.0	5,387.8	5,343.6	5,240.0	12.2	21.0	179.56	-952.1	-204.8	945.5	913.2	32.33	29.246	
5,500.0	5,487.8	5,490.6	5,385.6	12.5	21.4	179.80	-971.6	-208.6	958.8	925.8	32.92	29.121	
5,600.0	5,587.8	5,639.3	5,533.8	12.7	21.6	179.94	-983.9	-211.0	967.0	933.6	33.43	28.925	
5,700.0	5,687.8	5,788.9	5,683.3	12.9	21.9	179.99	-988.6	-211.9	970.1	936.3	33.87	28.644	
5,800.0	5,787.8	5,894.4	5,788.8	13.1	22.0	179.99	-988.6	-211.9	970.2	935.9	34.21	28.356	
5,889.8	5,877.6	5,984.2	5,878.6	13.3	22.1	179.99	-988.6	-211.9	970.2	935.7	34.50	28.119	
5,900.0	5,887.8	5,994.4	5,888.8	13.3	22.1	90.00	-988.6	-211.9	970.2	942.4	27.79	34.913	
5,904.8	5,892.6	5,999.2	5,893.6	13.3	22.1	90.00	-988.6	-211.9	970.2	942.4	27.80	34.894	
5,950.0	5,937.8	6,044.4	5,938.8	13.4	22.1	90.13	-988.6	-211.9	970.2	942.2	27.94	34.719	
6,000.0	5,987.4	6,094.3	5,988.7	13.5	22.2	90.42	-988.6	-211.3	970.2	942.1	28.07	34.558	
6,050.0	6,036.7	6,144.7	6,039.0	13.5	22.2	90.73	-988.6	-207.6	970.2	942.0	28.19	34.423	
6,100.0	6,085.2	6,195.4	6,089.2	13.6	22.3	91.03	-988.6	-200.5	970.3	942.0	28.28	34.311	
6,150.0	6,132.8	6,246.5	6,139.2	13.6	22.3	91.32	-988.6	-190.0	970.4	942.1	28.36	34.216	
6,200.0	6,179.4	6,298.0	6,188.7	13.7	22.3	91.62	-988.6	-176.1	970.5	942.1	28.44	34.126	
6,250.0	6,224.6	6,349.8	6,237.5	13.7	22.4	91.90	-988.6	-158.8	970.7	942.2	28.52	34.032	
6,300.0	6,268.4	6,401.9	6,285.3	13.8	22.4	92.18	-988.6	-138.0	970.9	942.2	28.63	33.916	
6,350.0	6,310.5	6,454.4	6,331.9	13.9	22.4	92.45	-988.6	-113.9	971.1	942.3	28.76	33.760	
6,400.0	6,350.7	6,507.3	6,377.1	14.0	22.4	92.71	-988.6	-86.4	971.3	942.3	28.95	33.545	
6,450.0	6,388.9	6,560.4	6,420.5	14.2	22.5	92.96	-988.6	-55.7	971.5	942.2	29.22	33.250	
6,500.0	6,425.0	6,613.9	6,461.9	14.4	22.5	93.20	-988.6	-21.8	971.7	942.1	29.58	32.853	
6,550.0	6,458.7	6,667.8	6,501.0	14.7	22.5	93.42	-988.6	15.1	971.9	941.8	30.05	32.345	
6,600.0	6,489.8	6,721.9	6,537.7	15.1	22.6	93.63	-988.6	54.9	972.1	941.4	30.66	31.705	
6,650.0	6,518.4	6,776.3	6,571.6	15.5	22.6	93.82	-988.6	97.5	972.3	940.9	31.43	30.937	
6,700.0	6,544.2	6,831.0	6,602.5	16.1	22.7	93.99	-988.6	142.5	972.5	940.2	32.37	30.047	
6,750.0	6,567.2	6,885.9	6,630.2	16.7	22.9	94.15	-988.6	189.9	972.7	939.2	33.48	29.052	
6,800.0	6,587.2	6,941.0	6,654.6	17.3	23.0	94.28	-988.6	239.3	972.9	938.1	34.78	27.975	
6,850.0	6,604.2	6,996.3	6,675.4	18.1	23.3	94.40	-988.6	290.5	973.0	936.8	36.25	26.844	
6,900.0	6,618.1	7,051.7	6,692.4	18.9	23.6	94.49	-988.6	343.3	973.1	935.3	37.89	25.686	
6,950.0	6,628.8	7,107.3	6,705.7	19.8	24.0	94.57	-988.6	397.3	973.2	933.6	39.68	24.528	
7,000.0	6,636.3	7,163.0	6,714.9	20.8	24.6	94.62	-988.6	452.1	973.3	931.7	41.60	23.395	
7,050.0	6,640.5	7,218.7	6,720.2	21.8	25.2	94.65	-988.6	507.6	973.4	929.7	43.63	22.307	
7,095.6	6,641.5	7,269.2	6,721.5	22.7	26.0	94.65	-988.6	558.1	973.4	927.8	45.55	21.369	
7,100.0	6,641.5	7,273.6	6,721.5	22.8	26.0	94.66	-988.6	562.4	973.4	927.6	45.73	21.284	
7,200.0	6,640.7	7,373.6	6,721.1	25.0	27.7	94.68	-988.6	662.4	973.4	923.4	50.02	19.459	
7,300.0	6,639.9	7,473.6	6,720.8	27.3	29.6	94.71	-988.6	762.4	973.4	918.9	54.54	17.849	
7,400.0	6,639.2	7,573.6	6,720.5	29.7	31.8	94.73	-988.6	862.4	973.5	914.2	59.24	16.433	
7,500.0	6,638.4	7,673.6	6,720.2	32.1	34.0	94.76	-988.6	962.4	973.5	909.4	64.09	15.190	
7,600.0	6,637.6	7,773.6	6,719.8	34.6	36.3	94.78	-988.6	1,062.4	973.5	904.5	69.05	14.100	
7,700.0	6,636.9	7,873.6	6,719.5	37.2	38.7	94.81	-988.6	1,162.4	973.6	899.5	74.10	13.139	
7,800.0	6,636.1	7,973.6	6,719.2	39.7	41.2	94.83	-988.6	1,262.4	973.6	894.4	79.22	12.290	
7,900.0	6,635.3	8,073.6	6,718.8	42.4	43.7	94.86	-988.6	1,362.4	973.7	889.2	84.41	11.535	
8,000.0	6,634.6	8,173.6	6,718.5	45.0	46.2	94.89	-988.6	1,462.4	973.7	884.0	89.64	10.862	
8,100.0	6,633.8	8,273.6	6,718.2	47.6	48.8	94.91	-988.6	1,562.4	973.7	878.8	94.92	10.259	
8,200.0	6,633.0	8,373.6	6,717.8	50.3	51.4	94.94	-988.6	1,662.4	973.8	873.5	100.23	9.715	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,300.0	6,632.3	8,473.6	6,717.5	53.0	54.1	94.96	-988.6	1,762.4	973.8	868.2	105.57	9.224		
8,400.0	6,631.5	8,573.5	6,717.2	55.7	56.7	94.99	-988.6	1,862.4	973.8	862.9	110.93	8.779		
8,500.0	6,630.7	8,673.5	6,716.8	58.4	59.4	95.01	-988.6	1,962.4	973.9	857.6	116.32	8.373		
8,600.0	6,630.0	8,773.5	6,716.5	61.1	62.0	95.04	-988.6	2,062.4	973.9	852.2	121.72	8.001		
8,700.0	6,629.2	8,873.5	6,716.2	63.9	64.7	95.06	-988.6	2,162.4	974.0	846.8	127.14	7.660		
8,800.0	6,628.4	8,973.5	6,715.8	66.6	67.4	95.09	-988.6	2,262.4	974.0	841.4	132.58	7.347		
8,900.0	6,627.7	9,073.5	6,715.5	69.3	70.1	95.12	-988.6	2,362.4	974.0	836.0	138.03	7.057		
9,000.0	6,626.9	9,173.5	6,715.2	72.1	72.8	95.14	-988.6	2,462.4	974.1	830.6	143.48	6.789		
9,100.0	6,626.1	9,273.5	6,714.8	74.8	75.5	95.17	-988.6	2,562.4	974.1	825.2	148.95	6.540		
9,200.0	6,625.4	9,373.5	6,714.5	77.6	78.3	95.19	-988.6	2,662.4	974.2	819.7	154.43	6.308		
9,300.0	6,624.6	9,473.5	6,714.2	80.3	81.0	95.22	-988.6	2,762.4	974.2	814.3	159.91	6.092		
9,400.0	6,623.8	9,573.5	6,713.8	83.1	83.7	95.24	-988.6	2,862.4	974.2	808.8	165.40	5.890		
9,500.0	6,623.0	9,673.5	6,713.5	85.9	86.5	95.27	-988.6	2,962.4	974.3	803.4	170.90	5.701		
9,600.0	6,622.3	9,773.5	6,713.2	88.6	89.2	95.29	-988.6	3,062.4	974.3	797.9	176.40	5.523		
9,700.0	6,621.5	9,873.5	6,712.9	91.4	92.0	95.32	-988.6	3,162.4	974.4	792.4	181.91	5.356		
9,800.0	6,620.7	9,973.5	6,712.5	94.2	94.7	95.35	-988.6	3,262.4	974.4	787.0	187.42	5.199		
9,900.0	6,620.0	10,073.5	6,712.2	96.9	97.5	95.37	-988.6	3,362.4	974.4	781.5	192.94	5.050		
10,000.0	6,619.2	10,173.5	6,711.9	99.7	100.2	95.40	-988.6	3,462.4	974.5	776.0	198.46	4.910		
10,100.0	6,618.4	10,273.5	6,711.5	102.5	103.0	95.42	-988.6	3,562.4	974.5	770.5	203.98	4.777		
10,200.0	6,617.7	10,373.5	6,711.2	105.3	105.8	95.45	-988.6	3,662.4	974.6	765.0	209.51	4.652		
10,300.0	6,616.9	10,473.5	6,710.9	108.1	108.5	95.47	-988.6	3,762.4	974.6	759.6	215.04	4.532		
10,400.0	6,616.1	10,573.5	6,710.5	110.8	111.3	95.50	-988.6	3,862.4	974.6	754.1	220.57	4.419		
10,500.0	6,615.4	10,673.5	6,710.2	113.6	114.1	95.52	-988.6	3,962.4	974.7	748.6	226.10	4.311		
10,600.0	6,614.6	10,773.5	6,709.9	116.4	116.8	95.55	-988.6	4,062.4	974.7	743.1	231.64	4.208		
10,700.0	6,613.8	10,873.5	6,709.5	119.2	119.6	95.58	-988.6	4,162.4	974.8	737.6	237.18	4.110		
10,800.0	6,613.1	10,973.5	6,709.2	122.0	122.4	95.60	-988.6	4,262.4	974.8	732.1	242.72	4.016		
10,900.0	6,612.3	11,073.5	6,708.9	124.8	125.2	95.63	-988.6	4,362.4	974.9	726.6	248.26	3.927		
11,000.0	6,611.5	11,173.5	6,708.5	127.6	127.9	95.65	-988.6	4,462.4	974.9	721.1	253.80	3.841		
11,100.0	6,610.8	11,273.5	6,708.2	130.3	130.7	95.68	-988.6	4,562.4	974.9	715.6	259.35	3.759		
11,200.0	6,610.0	11,373.5	6,707.9	133.1	133.5	95.70	-988.6	4,662.4	975.0	710.1	264.89	3.681		
11,300.0	6,609.2	11,473.5	6,707.5	135.9	136.3	95.73	-988.6	4,762.4	975.0	704.6	270.44	3.605		
11,400.0	6,608.5	11,573.5	6,707.2	138.7	139.1	95.75	-988.6	4,862.4	975.1	699.1	275.98	3.533		
11,500.0	6,607.7	11,673.5	6,706.9	141.5	141.9	95.78	-988.6	4,962.4	975.1	693.6	281.53	3.464		
11,600.0	6,606.9	11,773.5	6,706.6	144.3	144.6	95.81	-988.6	5,062.4	975.2	688.1	287.08	3.397		
11,700.0	6,606.2	11,873.5	6,706.2	147.1	147.4	95.83	-988.6	5,162.4	975.2	682.6	292.63	3.333		
11,800.0	6,605.4	11,973.5	6,705.9	149.9	150.2	95.86	-988.6	5,262.4	975.2	677.1	298.18	3.271		
11,900.0	6,604.6	12,073.5	6,705.6	152.7	153.0	95.88	-988.6	5,362.4	975.3	671.6	303.73	3.211		
12,000.0	6,603.8	12,173.5	6,705.2	155.5	155.8	95.91	-988.6	5,462.4	975.3	666.0	309.28	3.154		
12,100.0	6,603.1	12,273.5	6,704.9	158.3	158.6	95.93	-988.6	5,562.4	975.4	660.5	314.84	3.098		
12,200.0	6,602.3	12,373.5	6,704.6	161.1	161.4	95.96	-988.6	5,662.4	975.4	655.0	320.39	3.044		
12,300.0	6,601.5	12,473.5	6,704.2	163.9	164.2	95.98	-988.6	5,762.4	975.5	649.5	325.94	2.993		
12,400.0	6,600.8	12,573.5	6,703.9	166.7	167.0	96.01	-988.6	5,862.4	975.5	644.0	331.49	2.943		
12,500.0	6,600.0	12,673.5	6,703.6	169.5	169.8	96.03	-988.6	5,962.4	975.6	638.5	337.05	2.894		
12,600.0	6,599.2	12,773.5	6,703.2	172.3	172.5	96.06	-988.6	6,062.4	975.6	633.0	342.60	2.848		
12,700.0	6,598.5	12,873.5	6,702.9	175.1	175.3	96.09	-988.6	6,162.4	975.7	627.5	348.16	2.802		
12,800.0	6,597.7	12,973.5	6,702.6	177.9	178.1	96.11	-988.6	6,262.4	975.7	622.0	353.71	2.758		
12,900.0	6,596.9	13,073.5	6,702.2	180.7	180.9	96.14	-988.6	6,362.4	975.7	616.5	359.26	2.716		
13,000.0	6,596.2	13,173.5	6,701.9	183.5	183.7	96.16	-988.6	6,462.4	975.8	611.0	364.82	2.675		
13,100.0	6,595.4	13,273.5	6,701.6	186.3	186.5	96.19	-988.6	6,562.4	975.8	605.5	370.37	2.635		
13,200.0	6,594.6	13,373.5	6,701.2	189.1	189.3	96.21	-988.6	6,662.4	975.9	600.0	375.93	2.596		
13,300.0	6,593.9	13,473.5	6,700.9	191.9	192.1	96.24	-988.6	6,762.4	975.9	594.5	381.48	2.558		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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													Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
13,400.0	6,593.1	13,573.5	6,700.6	194.7	194.9	96.26	-988.6	6,862.4	976.0	588.9	387.04	2.522			
13,500.0	6,592.3	13,673.5	6,700.3	197.5	197.7	96.29	-988.6	6,962.4	976.0	583.4	392.59	2.486			
13,600.0	6,591.6	13,773.5	6,699.9	200.3	200.5	96.31	-988.6	7,062.3	976.1	577.9	398.14	2.452			
13,700.0	6,590.8	13,873.5	6,699.6	203.1	203.3	96.34	-988.6	7,162.3	976.1	572.4	403.70	2.418			
13,800.0	6,590.0	13,973.5	6,699.3	205.9	206.1	96.37	-988.6	7,262.3	976.2	566.9	409.25	2.385			
13,900.0	6,589.3	14,073.5	6,698.9	208.7	208.9	96.39	-988.6	7,362.3	976.2	561.4	414.81	2.353			
14,000.0	6,588.5	14,173.5	6,698.6	211.5	211.7	96.42	-988.6	7,462.3	976.3	555.9	420.36	2.322			
14,100.0	6,587.7	14,273.5	6,698.3	214.3	214.5	96.44	-988.6	7,562.3	976.3	550.4	425.91	2.292			
14,200.0	6,587.0	14,373.5	6,697.9	217.1	217.3	96.47	-988.6	7,662.3	976.4	544.9	431.47	2.263			
14,300.0	6,586.2	14,473.5	6,697.6	219.9	220.1	96.49	-988.6	7,762.3	976.4	539.4	437.02	2.234			
14,400.0	6,585.4	14,573.5	6,697.3	222.7	222.9	96.52	-988.6	7,862.3	976.5	533.9	442.57	2.206			
14,500.0	6,584.7	14,673.5	6,696.9	225.5	225.7	96.54	-988.6	7,962.3	976.5	528.4	448.12	2.179			
14,600.0	6,583.9	14,773.5	6,696.6	228.3	228.5	96.57	-988.6	8,062.3	976.6	522.9	453.68	2.153			
14,700.0	6,583.1	14,873.5	6,696.3	231.1	231.3	96.59	-988.6	8,162.3	976.6	517.4	459.23	2.127			
14,800.0	6,582.3	14,973.5	6,695.9	233.9	234.1	96.62	-988.6	8,262.3	976.7	511.9	464.78	2.101			
14,900.0	6,581.6	15,073.5	6,695.6	236.7	236.9	96.65	-988.6	8,362.3	976.7	506.4	470.33	2.077			
15,000.0	6,580.8	15,173.5	6,695.3	239.5	239.7	96.67	-988.6	8,462.3	976.8	500.9	475.88	2.053			
15,100.0	6,580.0	15,273.5	6,694.9	242.3	242.5	96.70	-988.6	8,562.3	976.8	495.4	481.43	2.029			
15,200.0	6,579.3	15,373.5	6,694.6	245.1	245.3	96.72	-988.6	8,662.3	976.9	489.9	486.98	2.006			
15,300.0	6,578.5	15,473.5	6,694.3	247.9	248.1	96.75	-988.6	8,762.3	976.9	484.4	492.53	1.983			
15,400.0	6,577.7	15,573.5	6,694.0	250.8	250.9	96.77	-988.6	8,862.3	977.0	478.9	498.08	1.961			
15,500.0	6,577.0	15,673.5	6,693.6	253.6	253.7	96.80	-988.6	8,962.3	977.0	473.4	503.63	1.940			
15,600.0	6,576.2	15,773.5	6,693.3	256.4	256.5	96.82	-988.6	9,062.3	977.1	467.9	509.18	1.919			
15,700.0	6,575.4	15,873.5	6,693.0	259.2	259.3	96.85	-988.6	9,162.3	977.1	462.4	514.73	1.898			
15,800.0	6,574.7	15,973.5	6,692.6	262.0	262.1	96.87	-988.6	9,262.3	977.2	456.9	520.28	1.878			
15,900.0	6,573.9	16,073.5	6,692.3	264.8	264.9	96.90	-988.6	9,362.3	977.2	451.4	525.83	1.858			
16,000.0	6,573.1	16,173.5	6,692.0	267.6	267.7	96.93	-988.6	9,462.3	977.3	445.9	531.37	1.839			
16,100.0	6,572.4	16,273.5	6,691.6	270.4	270.5	96.95	-988.6	9,562.3	977.3	440.4	536.92	1.820			
16,200.0	6,571.6	16,373.5	6,691.3	273.2	273.3	96.98	-988.6	9,662.3	977.4	434.9	542.47	1.802			
16,277.5	6,571.0	16,451.0	6,691.0	275.4	275.5	97.00	-988.6	9,739.8	977.4	430.7	546.77	1.788 SF			

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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 26-1 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 6816-UNKNOWN													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7,300.0	6,639.9	6,612.9	6,612.9	27.3	132.3	93.13	-153.3	1,721.9	969.1	809.8	159.32	6.083		
7,400.0	6,639.2	6,612.2	6,612.2	29.7	132.2	92.80	-153.3	1,721.9	870.2	708.5	161.73	5.381		
7,500.0	6,638.4	6,611.4	6,611.4	32.1	132.2	92.48	-153.3	1,721.9	771.6	607.4	164.20	4.699		
7,600.0	6,637.6	6,610.6	6,610.6	34.6	132.2	92.15	-153.3	1,721.9	673.4	506.6	166.72	4.039		
7,700.0	6,636.9	6,609.9	6,609.9	37.2	132.2	91.83	-153.3	1,721.9	575.7	406.5	169.28	3.401		
7,800.0	6,636.1	6,609.1	6,609.1	39.7	132.2	91.50	-153.3	1,721.9	479.1	307.2	171.87	2.787		
7,900.0	6,635.3	6,608.3	6,608.3	42.4	132.2	91.17	-153.3	1,721.9	384.2	209.7	174.49	2.202		
8,000.0	6,634.6	6,607.6	6,607.6	45.0	132.2	90.85	-153.3	1,721.9	292.6	115.5	177.12	1.652		
8,100.0	6,633.8	6,606.8	6,606.8	47.6	132.1	90.52	-153.3	1,721.9	209.0	29.3	179.78	1.163 Level 2		
8,200.0	6,633.0	6,606.0	6,606.0	50.3	132.1	90.19	-153.3	1,721.9	147.5	-34.9	182.44	0.808 Level 1		
8,259.7	6,632.6	6,605.6	6,605.6	51.9	132.1	90.00	-153.3	1,721.9	134.9	-49.2	184.03	0.733 Level 1, CC, ES, SF		
8,300.0	6,632.3	6,605.3	6,605.3	53.0	132.1	89.87	-153.3	1,721.9	140.7	-44.4	185.11	0.760 Level 1		
8,400.0	6,631.5	6,604.5	6,604.5	55.7	132.1	89.54	-153.3	1,721.9	194.6	6.8	187.78	1.036 Level 2		
8,500.0	6,630.7	6,603.7	6,603.7	58.4	132.1	89.22	-153.3	1,721.9	275.5	85.1	190.47	1.447 Level 3		
8,600.0	6,630.0	6,603.0	6,603.0	61.1	132.1	88.89	-153.3	1,721.9	366.0	172.9	193.15	1.895		
8,700.0	6,629.2	6,602.2	6,602.2	63.9	132.0	88.56	-153.3	1,721.9	460.4	264.6	195.83	2.351		
8,800.0	6,628.4	6,601.4	6,601.4	66.6	132.0	88.24	-153.3	1,721.9	556.8	358.3	198.52	2.805		
8,900.0	6,627.7	6,600.7	6,600.7	69.3	132.0	87.91	-153.3	1,721.9	654.3	453.1	201.20	3.252		
9,000.0	6,626.9	6,599.9	6,599.9	72.1	132.0	87.59	-153.3	1,721.9	752.4	548.5	203.89	3.690		
9,100.0	6,626.1	6,599.1	6,599.1	74.8	132.0	87.26	-153.3	1,721.9	851.0	644.4	206.56	4.120		
9,200.0	6,625.4	6,598.4	6,598.4	77.6	132.0	86.94	-153.3	1,721.9	949.9	740.6	209.24	4.540		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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 26-4 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	110.84	-151.6	398.2	426.6					
100.0	100.0	77.5	77.5	0.1	0.1	110.85	-151.6	398.1	426.0	425.8	0.22	1,978.769		
200.0	200.0	177.9	177.9	0.3	0.3	110.86	-151.6	397.9	425.8	425.1	0.68	629.919		
300.0	300.0	278.0	278.0	0.6	0.6	110.88	-151.7	397.6	425.6	424.4	1.17	365.309		
400.0	400.0	378.0	378.0	0.8	0.9	110.90	-151.7	397.4	425.4	423.7	1.65	257.176		
500.0	500.0	477.9	477.9	1.0	1.1	110.93	-151.8	397.1	425.1	423.0	2.14	198.524		
600.0	600.0	577.9	577.9	1.2	1.4	110.96	-152.0	396.8	424.9	422.3	2.63	161.650		
700.0	700.0	677.8	677.8	1.5	1.7	110.99	-152.1	396.5	424.7	421.6	3.11	136.354		
800.0	800.0	777.7	777.7	1.7	1.9	111.03	-152.3	396.2	424.5	420.9	3.60	118.035		
900.0	900.0	877.4	877.4	1.9	2.2	111.08	-152.6	396.0	424.4	420.3	4.07	104.294		
1,000.0	1,000.0	977.4	977.4	2.1	2.4	111.13	-152.9	395.8	424.3	419.8	4.54	93.466		
1,100.0	1,100.0	1,077.6	1,077.6	2.4	2.7	111.18	-153.2	395.5	424.2	419.2	5.02	84.545		
1,200.0	1,200.0	1,177.6	1,177.6	2.6	2.9	111.23	-153.5	395.3	424.1	418.6	5.50	77.096		
1,300.0	1,300.0	1,277.8	1,277.8	2.8	3.2	111.27	-153.8	395.0	423.9	417.9	5.99	70.794		
1,400.0	1,400.0	1,378.0	1,378.0	3.0	3.4	111.32	-154.0	394.7	423.7	417.2	6.48	65.429		
1,500.0	1,500.0	1,478.9	1,478.9	3.3	3.7	111.32	-154.0	394.4	423.4	416.4	6.92	61.162		
1,600.0	1,600.0	1,580.6	1,580.6	3.5	3.8	111.28	-153.4	393.9	422.7	415.4	7.32	57.782		
1,700.0	1,700.0	1,682.9	1,682.9	3.7	4.0	111.21	-152.5	393.0	421.6	413.9	7.71	54.670		
1,800.0	1,800.0	1,784.1	1,784.0	3.9	4.2	111.13	-151.4	391.8	420.1	411.9	8.13	51.682		
1,900.0	1,900.0	1,886.3	1,886.3	4.2	4.4	111.05	-150.2	391.0	418.1	409.6	8.56	48.825		
2,000.0	2,000.0	1,987.0	1,986.9	4.4	4.6	111.00	-149.0	388.1	415.8	406.8	9.02	46.120		
2,100.0	2,100.0	2,087.9	2,087.8	4.6	4.9	111.04	-148.3	385.6	413.3	403.8	9.49	43.559		
2,200.0	2,200.0	2,187.1	2,186.9	4.8	5.1	111.19	-148.4	382.9	410.8	400.8	9.97	41.191		
2,300.0	2,300.0	2,286.2	2,286.0	5.1	5.4	111.39	-148.9	380.2	408.5	398.0	10.46	39.053		
2,400.0	2,400.0	2,385.1	2,384.8	5.3	5.7	111.59	-149.5	377.8	406.4	395.4	10.95	37.129		
2,500.0	2,500.0	2,484.9	2,484.7	5.5	5.9	111.81	-150.2	375.5	404.5	393.1	11.43	35.377		
2,600.0	2,600.0	2,585.0	2,584.7	5.7	6.2	112.03	-151.0	373.1	402.6	390.7	11.92	33.766		
2,700.0	2,700.0	2,685.0	2,684.7	6.0	6.5	112.28	-151.9	370.7	400.7	388.2	12.41	32.282		
2,800.0	2,800.0	2,784.5	2,784.2	6.2	6.7	112.51	-152.7	368.3	398.8	385.9	12.90	30.917		
2,900.0	2,900.0	2,884.2	2,883.9	6.4	7.0	-152.36	-153.4	366.1	397.8	384.4	13.37	29.758		
2,911.2	2,911.2	2,895.4	2,895.0	6.4	7.0	-152.35	-153.5	365.9	397.8	384.4	13.42	29.644		
3,000.0	3,000.0	2,984.2	2,983.8	6.6	7.2	-152.31	-154.1	364.0	398.4	384.6	13.82	28.821		
3,100.0	3,099.9	3,083.4	3,083.0	6.8	7.5	-152.42	-154.6	362.0	400.6	386.4	14.27	28.068		
3,200.0	3,199.7	3,183.0	3,182.6	7.0	7.8	-152.72	-154.5	360.5	404.6	389.9	14.72	27.481		
3,300.0	3,299.4	3,279.7	3,279.2	7.2	8.0	-153.07	-154.9	359.1	410.4	395.3	15.15	27.085		
3,400.0	3,398.9	3,377.1	3,376.6	7.4	8.2	-153.41	-156.1	358.2	418.6	403.0	15.56	26.896		
3,500.0	3,498.3	3,475.7	3,475.2	7.6	8.4	-153.76	-158.0	357.4	428.7	412.7	15.96	26.865		
3,536.2	3,534.1	3,511.5	3,511.0	7.7	8.5	-153.91	-158.7	357.2	432.8	416.7	16.10	26.883		
3,600.0	3,597.4	3,575.0	3,574.5	7.9	8.6	-154.21	-159.9	356.7	440.1	423.8	16.37	26.894		
3,700.0	3,696.6	3,674.2	3,673.7	8.1	8.9	-154.63	-161.9	355.9	451.7	434.9	16.79	26.905		
3,800.0	3,795.8	3,773.3	3,772.8	8.4	9.1	-155.05	-163.9	355.2	463.3	446.1	17.21	26.913		
3,900.0	3,895.0	3,872.1	3,871.5	8.6	9.3	-155.52	-165.3	354.8	475.0	457.4	17.63	26.939		
4,000.0	3,994.2	3,971.7	3,971.2	8.9	9.4	-156.11	-165.6	354.7	486.8	468.8	17.99	27.054		
4,100.0	4,093.3	4,072.9	4,072.3	9.2	9.5	-156.79	-165.0	354.7	498.4	480.1	18.30	27.231		
4,200.0	4,192.5	4,172.9	4,172.3	9.4	9.6	-157.51	-163.5	354.7	509.7	491.1	18.61	27.384		
4,300.0	4,291.7	4,272.1	4,271.5	9.7	9.7	-158.21	-162.0	354.6	521.0	502.1	18.94	27.515		
4,400.0	4,390.9	4,364.2	4,363.6	10.0	9.8	-158.80	-161.0	354.8	532.9	513.6	19.23	27.711		
4,500.0	4,490.0	4,456.9	4,456.3	10.3	9.8	-159.26	-161.3	356.2	546.4	526.9	19.50	28.017		
4,600.0	4,589.2	4,553.3	4,552.7	10.5	9.9	-159.64	-162.5	358.1	560.6	540.8	19.78	28.334		
4,644.1	4,632.9	4,596.3	4,595.7	10.7	9.9	-159.78	-163.4	358.9	567.0	547.1	19.92	28.466		
4,700.0	4,688.4	4,650.5	4,649.9	10.8	10.0	-159.95	-164.8	360.0	574.6	554.5	20.13	28.553		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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 26-4 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,800.0	4,788.0	4,750.6	4,749.9	11.0	10.1	-160.04	-168.3	362.0	586.0	565.5	20.49	28.605		
4,900.0	4,887.9	4,854.3	4,853.5	11.2	10.2	-159.98	-172.0	363.4	593.6	572.7	20.85	28.466		
5,000.0	4,987.8	4,961.3	4,960.4	11.4	10.4	-159.79	-175.4	364.1	597.0	575.8	21.23	28.123		
5,012.2	5,000.0	4,974.6	4,973.7	11.5	10.4	105.27	-175.7	364.1	597.1	575.4	21.80	27.395		
5,100.0	5,087.8	5,067.7	5,066.8	11.6	10.6	105.51	-178.1	363.5	597.2	575.0	22.16	26.945		
5,200.0	5,187.8	5,171.6	5,170.7	11.8	10.9	105.77	-180.5	362.1	596.5	573.9	22.62	26.375		
5,300.0	5,287.8	5,273.3	5,272.3	12.0	11.1	106.04	-183.0	360.1	595.4	572.3	23.08	25.800		
5,400.0	5,387.8	5,367.3	5,366.2	12.2	11.4	106.31	-185.4	358.5	594.5	571.0	23.51	25.288		
5,416.6	5,404.5	5,382.5	5,381.5	12.3	11.4	106.35	-185.8	358.4	594.4	570.9	23.58	25.212		
5,500.0	5,487.8	5,462.2	5,461.1	12.5	11.6	106.54	-187.8	358.2	594.8	570.8	23.92	24.866		
5,600.0	5,587.8	5,559.8	5,558.7	12.7	11.7	106.71	-189.7	358.4	595.6	571.3	24.31	24.499		
5,700.0	5,687.8	5,657.6	5,656.5	12.9	11.9	106.85	-191.5	359.1	596.8	572.1	24.68	24.180		
5,800.0	5,787.8	5,755.8	5,754.7	13.1	12.0	106.96	-193.0	360.3	598.4	573.4	25.04	23.901		
5,889.8	5,877.6	5,844.5	5,843.4	13.3	12.2	107.07	-194.5	361.5	600.0	574.7	25.35	23.667		
5,900.0	5,887.8	5,854.7	5,853.5	13.3	12.2	17.08	-194.7	361.6	600.1	575.2	24.95	24.058		
5,950.0	5,937.8	5,904.2	5,903.1	13.4	12.3	17.23	-195.6	362.3	598.9	573.9	25.01	23.946		
6,000.0	5,987.4	5,953.4	5,952.2	13.5	12.3	17.55	-196.5	363.1	594.6	569.6	24.98	23.803		
6,050.0	6,036.7	6,002.2	6,001.0	13.5	12.4	18.05	-197.5	363.9	587.2	562.4	24.85	23.629		
6,100.0	6,085.2	6,051.0	6,049.8	13.6	12.5	18.74	-198.5	364.7	576.8	552.2	24.64	23.415		
6,150.0	6,132.8	6,098.9	6,097.7	13.6	12.5	19.64	-199.4	365.4	563.5	539.2	24.34	23.156		
6,200.0	6,179.4	6,145.7	6,144.5	13.7	12.6	20.79	-200.3	366.2	547.3	523.3	23.96	22.837		
6,250.0	6,224.6	6,191.2	6,190.0	13.7	12.7	22.24	-201.1	366.9	528.3	504.8	23.54	22.441		
6,300.0	6,268.4	6,235.1	6,233.9	13.8	12.7	24.04	-202.0	367.7	506.7	483.6	23.09	21.940		
6,350.0	6,310.5	6,277.4	6,276.2	13.9	12.8	26.26	-202.8	368.4	482.6	460.0	22.66	21.297		
6,400.0	6,350.7	6,317.9	6,316.6	14.0	12.9	28.98	-203.6	369.1	456.3	434.0	22.31	20.458		
6,450.0	6,388.9	6,356.4	6,355.1	14.2	12.9	32.34	-204.3	369.8	428.1	406.0	22.11	19.361		
6,500.0	6,425.0	6,392.8	6,391.4	14.4	13.0	36.44	-205.1	370.5	398.1	375.9	22.18	17.949		
6,550.0	6,458.7	6,427.4	6,426.0	14.7	13.0	41.46	-205.7	371.2	366.8	344.1	22.63	16.204		
6,600.0	6,489.8	6,459.7	6,458.3	15.1	13.1	47.45	-206.3	371.8	334.6	311.0	23.56	14.201		
6,650.0	6,518.4	6,489.3	6,487.9	15.5	13.1	54.37	-206.8	372.4	302.3	277.3	24.95	12.116		
6,700.0	6,544.2	6,516.4	6,515.0	16.1	13.2	62.03	-207.2	372.9	270.7	244.1	26.65	10.160		
6,750.0	6,567.2	6,540.6	6,539.2	16.7	13.2	69.92	-207.5	373.4	241.4	213.0	28.40	8.500		
6,800.0	6,587.2	6,561.8	6,560.4	17.3	13.2	77.40	-207.7	373.7	216.3	186.3	29.95	7.221		
6,850.0	6,604.2	6,579.8	6,578.4	18.1	13.3	83.82	-207.9	374.0	198.1	166.9	31.20	6.349		
6,900.0	6,618.1	6,594.7	6,593.3	18.9	13.3	88.72	-208.0	374.3	189.9	157.6	32.21	5.895		
6,910.1	6,620.5	6,597.3	6,595.9	19.1	13.3	89.50	-208.1	374.3	189.6	157.2	32.40	5.852 CC, ES		
6,950.0	6,628.8	6,606.2	6,604.8	19.8	13.3	91.84	-208.1	374.5	193.5	160.4	33.11	5.845 SF		
7,000.0	6,636.3	6,614.5	6,613.1	20.8	13.3	93.06	-208.2	374.6	209.1	175.0	34.04	6.141		
7,050.0	6,640.5	6,619.6	6,618.2	21.8	13.3	92.36	-208.2	374.7	234.4	199.3	35.07	6.683		
7,095.6	6,641.5	6,621.3	6,619.9	22.7	13.3	90.00	-208.2	374.7	263.7	227.7	36.04	7.316		
7,100.0	6,641.5	6,621.4	6,620.0	22.8	13.3	90.01	-208.2	374.7	266.8	230.6	36.14	7.382		
7,200.0	6,640.7	6,622.2	6,620.8	25.0	13.3	90.27	-208.3	374.7	344.5	306.2	38.31	8.993		
7,300.0	6,639.9	6,623.1	6,621.7	27.3	13.3	90.53	-208.3	374.7	431.5	390.9	40.59	10.629		
7,400.0	6,639.2	6,623.9	6,622.5	29.7	13.3	90.79	-208.3	374.8	523.1	480.1	42.97	12.175		
7,500.0	6,638.4	6,624.8	6,623.4	32.1	13.3	91.05	-208.3	374.8	617.4	572.0	45.41	13.595		
7,600.0	6,637.6	6,625.7	6,624.3	34.6	13.3	91.32	-208.3	374.8	713.2	665.3	47.91	14.887		
7,700.0	6,636.9	6,626.6	6,625.2	37.2	13.3	91.58	-208.3	374.8	810.0	759.6	50.45	16.056		
7,800.0	6,636.1	6,627.4	6,626.0	39.7	13.3	91.84	-208.3	374.8	907.5	854.5	53.02	17.116		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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												Offset Site Error:	0.0 ft
Survey Program: 95-Reference												Offset Well Error:	0.0 ft
Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 31-25 - Wellbore #1 - Wellbore #1													
Measured Depth (ft)		Vertical Depth (ft)		Offset		Semi Major Axis		Distance					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,900.0	6,589.3	6,911.7	6,578.6	208.7	37.5	95.55	-195.5	8,251.7	907.2	663.4	243.77	3.722	
14,000.0	6,588.5	6,909.3	6,576.3	211.5	37.5	94.79	-195.5	8,251.7	809.4	562.6	246.82	3.279	
14,100.0	6,587.7	6,907.0	6,573.9	214.3	37.5	94.04	-195.4	8,251.8	712.2	462.3	249.83	2.851	
14,200.0	6,587.0	6,904.7	6,571.6	217.1	37.5	93.29	-195.4	8,251.8	615.8	363.0	252.81	2.436	
14,300.0	6,586.2	6,902.4	6,569.3	219.9	37.5	92.55	-195.4	8,251.8	520.8	265.1	255.74	2.037	
14,400.0	6,585.4	6,900.1	6,567.0	222.7	37.5	91.82	-195.3	8,251.9	428.1	169.5	258.64	1.655	
14,500.0	6,584.7	6,897.9	6,564.8	225.5	37.5	91.09	-195.3	8,251.9	339.6	78.1	261.51	1.299	Level 3
14,600.0	6,583.9	6,895.6	6,562.6	228.3	37.5	90.37	-195.3	8,251.9	259.5	-4.8	264.33	0.982	Level 1
14,700.0	6,583.1	6,893.4	6,560.4	231.1	37.5	89.66	-195.2	8,252.0	198.4	-68.8	267.12	0.743	Level 1
14,790.0	6,582.4	6,891.5	6,558.4	233.6	37.5	89.03	-195.2	8,252.0	176.8	-92.8	269.60	0.656	Level 1, CC, ES, SF
14,800.0	6,582.3	6,891.3	6,558.2	233.9	37.5	88.96	-195.2	8,252.0	177.0	-92.8	269.87	0.656	Level 1
14,900.0	6,581.6	6,889.1	6,556.1	236.7	37.5	88.27	-195.2	8,252.0	208.2	-64.4	272.58	0.764	Level 1
15,000.0	6,580.8	6,887.0	6,554.0	239.5	37.5	87.58	-195.1	8,252.0	274.4	-0.8	275.25	0.997	Level 1
15,100.0	6,580.0	6,884.9	6,551.9	242.3	37.5	86.90	-195.1	8,252.1	356.8	78.9	277.89	1.284	Level 3
15,200.0	6,579.3	6,882.8	6,549.8	245.1	37.5	86.23	-195.0	8,252.1	446.4	165.9	280.49	1.591	
15,300.0	6,578.5	6,880.8	6,547.7	247.9	37.5	85.57	-195.0	8,252.1	539.6	256.6	283.05	1.906	
15,400.0	6,577.7	6,878.8	6,545.7	250.8	37.5	84.91	-195.0	8,252.1	634.9	349.3	285.58	2.223	
15,500.0	6,577.0	6,876.8	6,543.7	253.6	37.5	84.26	-194.9	8,252.2	731.5	443.4	288.07	2.539	
15,600.0	6,576.2	6,875.0	6,541.9	256.4	37.5	83.70	-194.9	8,252.2	828.8	538.3	290.57	2.853	
15,700.0	6,575.4	6,875.0	6,541.9	259.2	37.5	83.70	-194.9	8,252.2	926.8	633.4	293.35	3.159	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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													Offset Site Error:		0.0 ft
Survey Program: 95-Reference													Offset Well Error:		0.0 ft
Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 41-25 - Wellbore #1 - Wellbore #1															
Reference		Offset		Semi Major Axis				Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
15,100.0	6,580.0	6,665.1	6,595.9	242.3	19.1	107.78	-163.3	9,540.4	989.8	742.1	247.71	3.996			
15,200.0	6,579.3	6,660.9	6,591.8	245.1	19.1	106.26	-163.3	9,540.5	891.1	638.9	252.21	3.533			
15,300.0	6,578.5	6,656.7	6,587.5	247.9	19.1	104.70	-163.4	9,540.7	792.8	536.1	256.63	3.089			
15,400.0	6,577.7	6,652.4	6,583.2	250.8	19.1	103.09	-163.4	9,540.9	694.8	433.8	260.96	2.663			
15,500.0	6,577.0	6,648.0	6,578.9	253.6	19.1	101.44	-163.5	9,541.0	597.5	332.3	265.16	2.253			
15,600.0	6,576.2	6,643.6	6,574.4	256.4	19.1	99.75	-163.5	9,541.2	501.2	232.0	269.23	1.862			
15,700.0	6,575.4	6,639.1	6,569.9	259.2	19.1	98.01	-163.6	9,541.4	406.6	133.5	273.13	1.489 Level 3			
15,800.0	6,574.7	6,634.5	6,565.4	262.0	19.1	96.24	-163.7	9,541.6	315.4	38.6	276.84	1.139 Level 2			
15,900.0	6,573.9	6,629.9	6,560.8	264.8	19.1	94.42	-163.8	9,541.8	231.4	-48.9	280.34	0.825 Level 1			
16,000.0	6,573.1	6,625.2	6,556.1	267.6	19.1	92.58	-163.9	9,541.9	166.1	-117.5	283.59	0.586 Level 1			
16,080.2	6,572.5	6,621.3	6,552.2	269.8	19.1	91.07	-163.9	9,542.1	145.5	-140.5	286.01	0.509 Level 1, CC, ES, SF			
16,100.0	6,572.4	6,620.4	6,551.3	270.4	19.1	90.70	-163.9	9,542.1	146.8	-139.8	286.58	0.512 Level 1			
16,200.0	6,571.6	6,615.5	6,546.4	273.2	19.0	88.79	-164.0	9,542.3	188.4	-100.9	289.28	0.651 Level 1			
16,277.5	6,571.0	6,611.7	6,542.6	275.4	19.0	87.29	-164.1	9,542.5	245.0	-46.2	291.16	0.841 Level 1			

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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													Offset Site Error:	0.0 ft
Survey Program: 95-Reference													Offset Well Error:	0.0 ft
Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 6-0-25 - Wellbore #1 - Wellbore #1														
Measured Depth (ft)		Vertical Depth (ft)		Offset		Semi Major Axis		Highside Toolface (°)		Offset Wellbore Centre		Distance		Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	
14,600.0	6,583.9	6,858.4	6,578.4	228.3	32.5	-93.31		396.3	8,905.2	939.9	686.9	253.01	3.715	
14,700.0	6,583.1	6,855.4	6,575.5	231.1	32.5	-92.91		396.2	8,905.3	851.3	595.4	255.91	3.327	
14,800.0	6,582.3	6,852.4	6,572.5	233.9	32.5	-92.49		396.2	8,905.4	765.6	506.8	258.81	2.958	
14,900.0	6,581.6	6,849.4	6,569.4	236.7	32.5	-92.07		396.2	8,905.5	683.7	422.0	261.70	2.613	
15,000.0	6,580.8	6,846.3	6,566.3	239.5	32.5	-91.65		396.2	8,905.5	607.3	342.7	264.58	2.295	
15,100.0	6,580.0	6,843.1	6,563.1	242.3	32.5	-91.21		396.2	8,905.6	538.6	271.1	267.45	2.014	
15,200.0	6,579.3	6,839.9	6,559.9	245.1	32.5	-90.76		396.2	8,905.7	481.0	210.7	270.30	1.779	
15,300.0	6,578.5	6,836.6	6,556.6	247.9	32.5	-90.30		396.1	8,905.8	438.8	165.7	273.14	1.607	
15,400.0	6,577.7	6,833.2	6,553.2	250.8	32.5	-89.84		396.1	8,905.9	416.9	140.9	275.97	1.511	
15,444.0	6,577.4	6,831.7	6,551.7	252.0	32.5	-89.63		396.1	8,905.9	414.6	137.4	277.20	1.496	Level 3, CC, ES, SF
15,500.0	6,577.0	6,829.7	6,549.8	253.6	32.5	-89.36		396.1	8,906.0	418.3	139.6	278.77	1.501	
15,600.0	6,576.2	6,826.2	6,546.2	256.4	32.5	-88.87		396.1	8,906.1	442.9	161.4	281.56	1.573	
15,700.0	6,575.4	6,822.6	6,542.6	259.2	32.5	-88.38		396.0	8,906.1	487.2	202.8	284.33	1.713	
15,800.0	6,574.7	6,818.9	6,539.0	262.0	32.5	-87.87		396.0	8,906.2	546.3	259.2	287.08	1.903	
15,900.0	6,573.9	6,815.2	6,535.2	264.8	32.5	-87.35		396.0	8,906.4	616.1	326.3	289.80	2.126	
16,000.0	6,573.1	6,811.3	6,531.3	267.6	32.5	-86.82		396.0	8,906.5	693.3	400.8	292.49	2.370	
16,100.0	6,572.4	6,807.4	6,527.4	270.4	32.5	-86.27		395.9	8,906.6	775.7	480.5	295.16	2.628	
16,200.0	6,571.6	6,803.3	6,523.4	273.2	32.5	-85.72		395.9	8,906.7	861.8	564.0	297.79	2.894	
16,277.5	6,571.0	6,800.1	6,520.2	275.4	32.5	-85.28		395.9	8,906.8	930.5	630.7	299.81	3.104	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-332
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Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-332	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 @ 4620.0ft (RKB - 23')

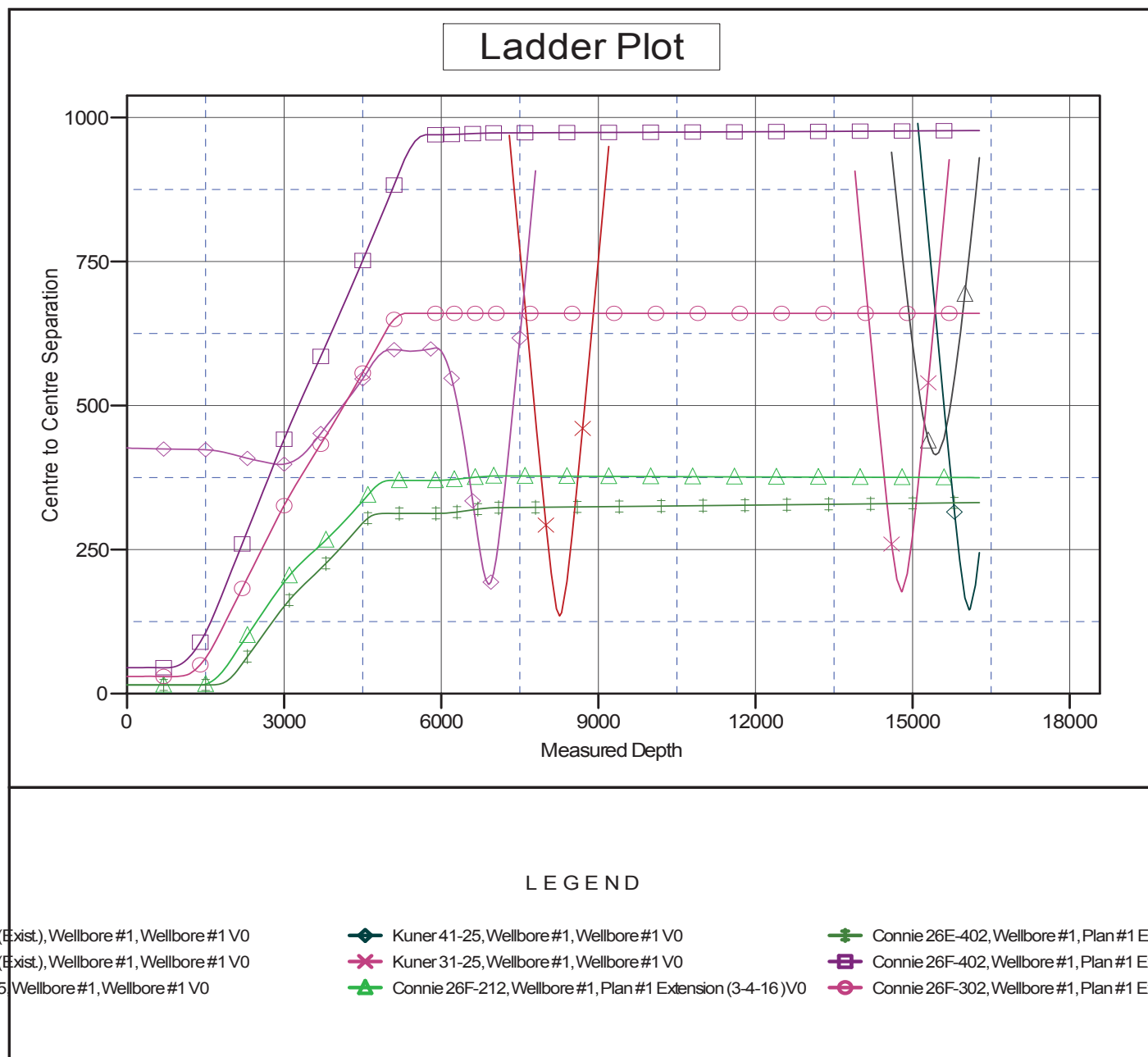
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: Connie 26E-332

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 26E-332
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4620.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4620.0ft (RKB - 23')
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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 @ 4620.0ft (RKB - 23')

Offset Depths are relative to Offset Datum

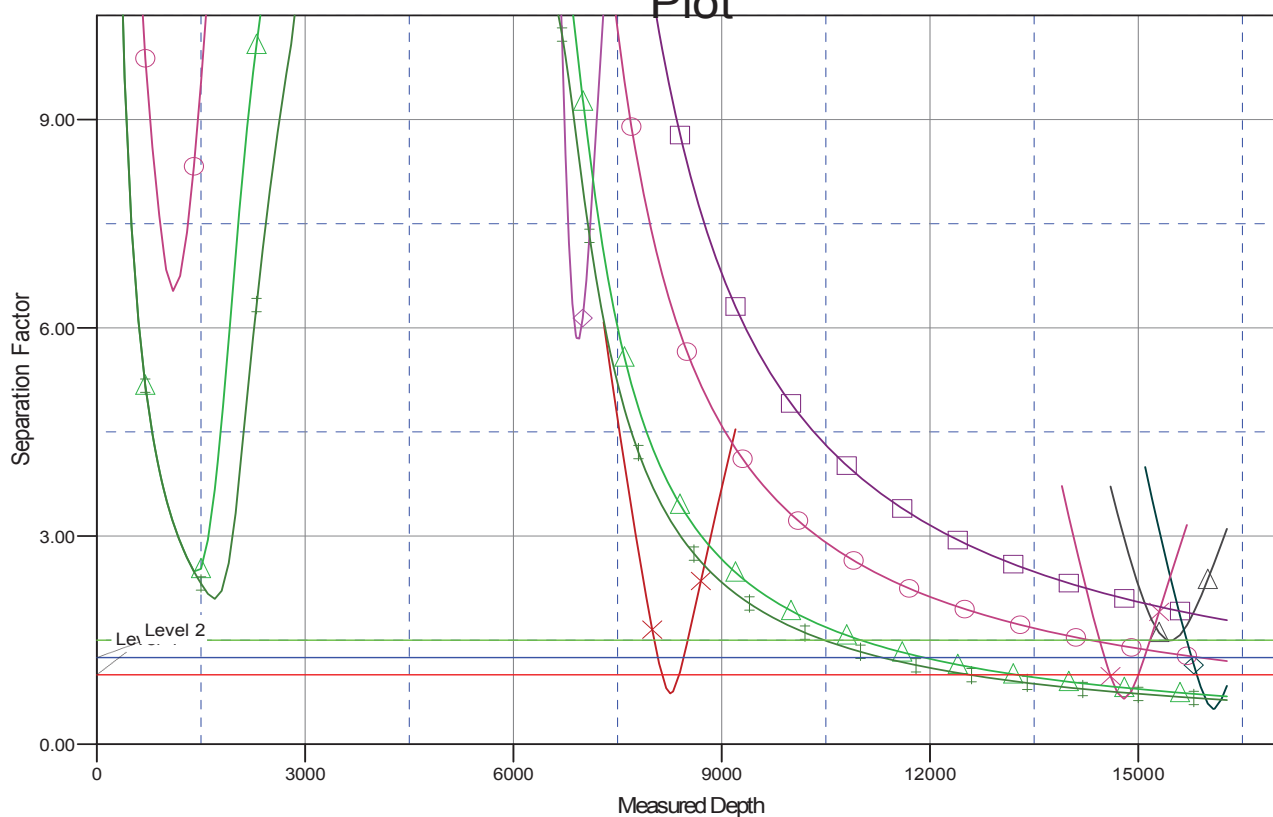
Central Meridian is -105.500000

Coordinates are relative to: Connie 26E-332

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.63°

Separation Factor Plot



LEGEND

(Exist), Wellbore #1, Wellbore #1 V0
 (Exist), Wellbore #1, Wellbore #1 V0
 25 Wellbore #1, Wellbore #1 V0

Kuner 41-25, Wellbore #1, Wellbore #1 V0
 Kuner 31-25, Wellbore #1, Wellbore #1 V0
 Connie 26F-212, Wellbore #1, Plan #1 Extension (3-4-16) V0

Connie 26E-402, Wellbore #1, Plan #1 Extension
 Connie 26F-402, Wellbore #1, Plan #1 Extension
 Connie 26F-302, Wellbore #1, Plan #1 Extension