

PETROLEUM DEVELOPMENT CORP DJ Basin

Well Name: **Connie 26F-302**

Surface Location: Connie 5N64W26EF Pad Sec.26-T5N-R64W

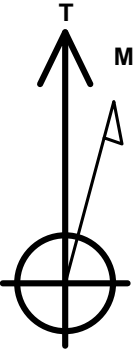
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone

Ground Elevation: 4598.0

+N/-S +E/-W Northing Easting Longitude Slot
0.0 0.0 1381376.89 3271499.05 40.376186 -104.525497
RKB - 23' WELL @ 4621.0ft (RKB - 23')

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 527'FNL & 245'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 1160'FNL & 500'FEL, Sec.25	6571.0	-654.2	9757.5	Point



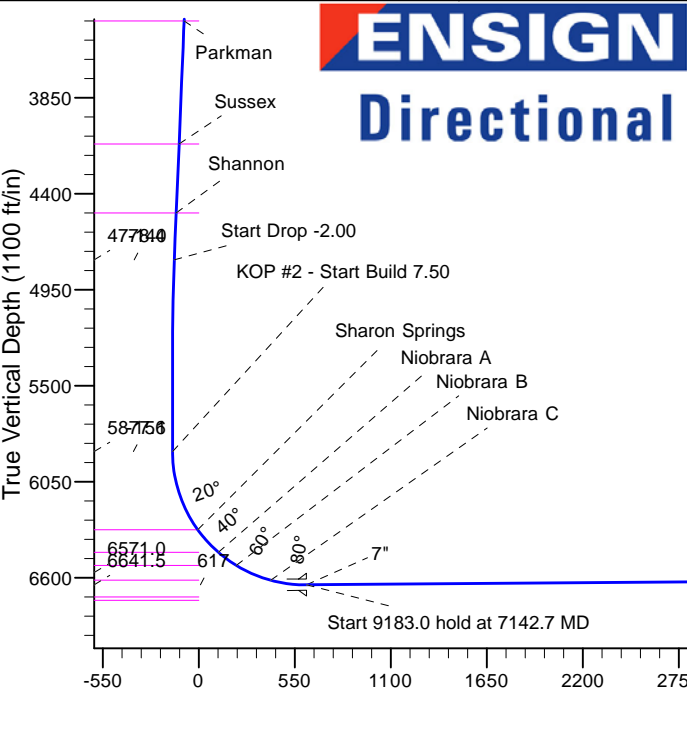
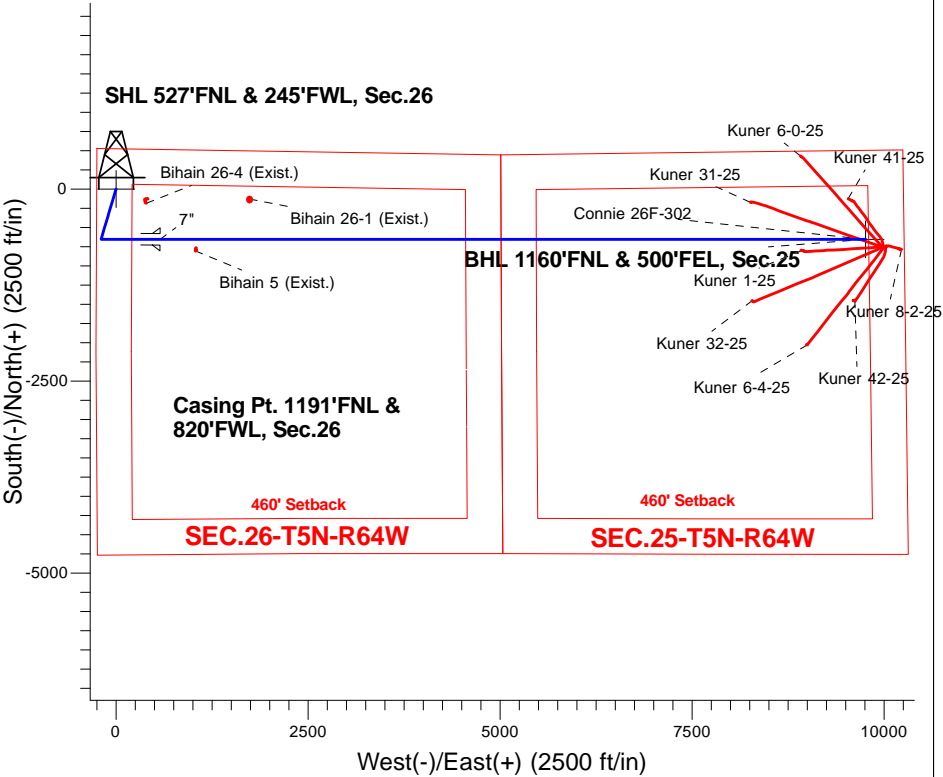
Azimuths to True North
Magnetic North: 8.14°

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

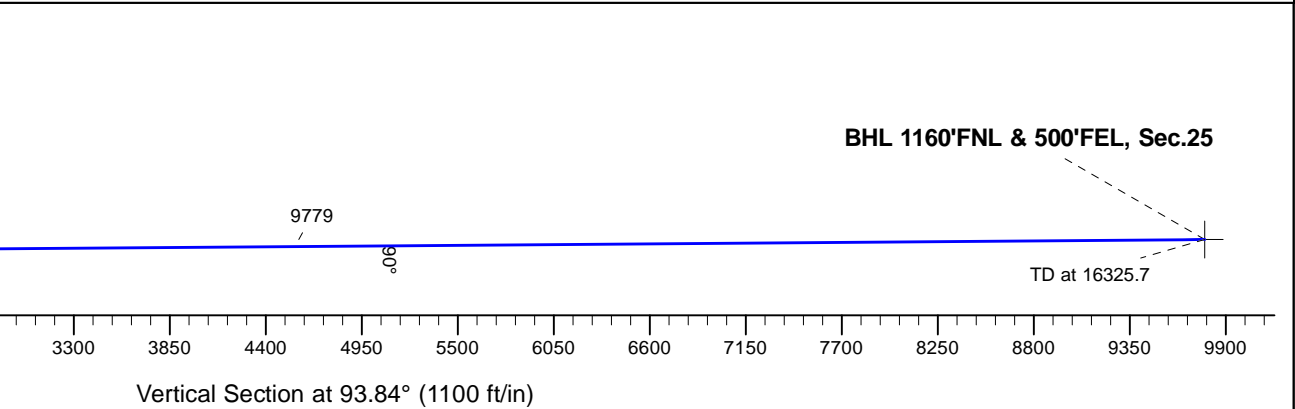
Connie 5N64W26EF Pad Sec.26-T5N-R64W
Connie 26F-302
Plan #1 Extension (3-4-16)
12:53, March 10 2016

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP - Start Build 1.50
4778.4	4834.7	Start Drop -2.00
5877.6	5936.8	KOP #2 - Start Build 7.50
6641.5	7142.7	Start 9183.0 hold at 7142.7 MD
6571.0	16325.7	TD at 16325.7



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1699.4	10.49	196.60	1695.5	-61.2	-18.2	1.50	196.60	-14.1	
4	4834.7	10.49	196.60	4778.4	-608.3	-181.3	0.00	0.00	-140.2	
5	5359.2	0.00	0.00	5300.0	-654.2	-195.0	2.00	180.00	-150.8	
6	5936.8	0.00	0.00	5877.6	-654.2	-195.0	0.00	0.00	-150.8	
7	7142.7	90.44	90.00	6641.5	-654.2	574.8	7.50	90.00	617.3	
8	16325.7	90.44	90.00	6571.0	-654.2	9757.5	0.00	0.00	9779.4	BHL 1160'FNL & 500'FEL, Sec.25





Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Connie 5N64W26EF Pad Sec.26-T5N-R64W

Connie 26F-302

Wellbore #1

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

Standard Planning Report

10 March, 2016

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26F-302
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26F-302	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extension (3-4-16)		

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

Site		Connie 5N64W26EF Pad Sec.26-T5N-R64W			
Site Position:		Northing:	1,381,364.42 usft	Latitude:	40.376152
From:	Lat/Long	Easting:	3,271,490.55 usft	Longitude:	-104.525528
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.63

Well	Connie 26F-302					
Well Position	+N/-S	12.4 ft	Northing:	1,381,376.89 usft	Latitude:	40.376186
	+E/-W	8.6 ft	Easting:	3,271,499.06 usft	Longitude:	-104.525497
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,598.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/3/2015	8.14	66.92	52,683

Design	Plan #1 Extension (3-4-16)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	-10.0	0.0	0.0	93.84

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,699.4	10.49	196.60	1,695.5	-61.2	-18.2	1.50	1.50	0.00	196.60	
4,834.7	10.49	196.60	4,778.4	-608.3	-181.3	0.00	0.00	0.00	0.00	
5,359.2	0.00	0.00	5,300.0	-654.2	-195.0	2.00	-2.00	0.00	180.00	
5,936.8	0.00	0.00	5,877.6	-654.2	-195.0	0.00	0.00	0.00	0.00	
7,142.7	90.44	90.00	6,641.5	-654.2	574.8	7.50	7.50	0.00	90.00	
16,325.7	90.44	90.00	6,571.0	-654.2	9,757.5	0.00	0.00	0.00	0.00	BHL 1160'FNL & 500'I

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26F-302
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26F-302	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 Extension (3-4-16)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 527'FNL & 245'FWL, Sec.26									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.50									
1,100.0	1.50	196.60	1,100.0	-1.3	-0.4	-0.3	1.50	1.50	0.00
1,200.0	3.00	196.60	1,199.9	-5.0	-1.5	-1.2	1.50	1.50	0.00
1,300.0	4.50	196.60	1,299.7	-11.3	-3.4	-2.6	1.50	1.50	0.00
1,400.0	6.00	196.60	1,399.3	-20.1	-6.0	-4.6	1.50	1.50	0.00
1,500.0	7.50	196.60	1,498.6	-31.3	-9.3	-7.2	1.50	1.50	0.00
1,600.0	9.00	196.60	1,597.5	-45.1	-13.4	-10.4	1.50	1.50	0.00
1,699.4	10.49	196.60	1,695.5	-61.2	-18.2	-14.1	1.50	1.50	0.00
1,700.0	10.49	196.60	1,696.1	-61.3	-18.3	-14.1	0.00	0.00	0.00
1,800.0	10.49	196.60	1,794.4	-78.7	-23.5	-18.2	0.00	0.00	0.00
1,900.0	10.49	196.60	1,892.7	-96.2	-28.7	-22.2	0.00	0.00	0.00
2,000.0	10.49	196.60	1,991.1	-113.6	-33.9	-26.2	0.00	0.00	0.00
2,100.0	10.49	196.60	2,089.4	-131.1	-39.1	-30.2	0.00	0.00	0.00
2,200.0	10.49	196.60	2,187.7	-148.5	-44.3	-34.2	0.00	0.00	0.00
2,300.0	10.49	196.60	2,286.1	-166.0	-49.5	-38.3	0.00	0.00	0.00
2,400.0	10.49	196.60	2,384.4	-183.4	-54.7	-42.3	0.00	0.00	0.00
2,500.0	10.49	196.60	2,482.7	-200.9	-59.9	-46.3	0.00	0.00	0.00
2,600.0	10.49	196.60	2,581.0	-218.3	-65.1	-50.3	0.00	0.00	0.00
2,700.0	10.49	196.60	2,679.4	-235.8	-70.3	-54.4	0.00	0.00	0.00
2,800.0	10.49	196.60	2,777.7	-253.2	-75.5	-58.4	0.00	0.00	0.00
2,900.0	10.49	196.60	2,876.0	-270.7	-80.7	-62.4	0.00	0.00	0.00
3,000.0	10.49	196.60	2,974.4	-288.1	-85.9	-66.4	0.00	0.00	0.00
3,100.0	10.49	196.60	3,072.7	-305.6	-91.1	-70.4	0.00	0.00	0.00
3,200.0	10.49	196.60	3,171.0	-323.0	-96.3	-74.5	0.00	0.00	0.00
3,300.0	10.49	196.60	3,269.3	-340.5	-101.5	-78.5	0.00	0.00	0.00
3,400.0	10.49	196.60	3,367.7	-357.9	-106.7	-82.5	0.00	0.00	0.00
3,443.1	10.49	196.60	3,410.0	-365.5	-108.9	-84.2	0.00	0.00	0.00
Parkman									
3,500.0	10.49	196.60	3,466.0	-375.4	-111.9	-86.5	0.00	0.00	0.00
3,600.0	10.49	196.60	3,564.3	-392.8	-117.1	-90.6	0.00	0.00	0.00
3,700.0	10.49	196.60	3,662.7	-410.3	-122.3	-94.6	0.00	0.00	0.00
3,800.0	10.49	196.60	3,761.0	-427.7	-127.5	-98.6	0.00	0.00	0.00
3,900.0	10.49	196.60	3,859.3	-445.2	-132.7	-102.6	0.00	0.00	0.00
4,000.0	10.49	196.60	3,957.6	-462.6	-137.9	-106.6	0.00	0.00	0.00
4,100.0	10.49	196.60	4,056.0	-480.1	-143.1	-110.7	0.00	0.00	0.00
4,160.0	10.49	196.60	4,115.0	-490.6	-146.2	-113.1	0.00	0.00	0.00
Sussex									
4,200.0	10.49	196.60	4,154.3	-497.5	-148.3	-114.7	0.00	0.00	0.00
4,300.0	10.49	196.60	4,252.6	-515.0	-153.5	-118.7	0.00	0.00	0.00
4,400.0	10.49	196.60	4,351.0	-532.4	-158.7	-122.7	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26F-302
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26F-302	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	10.49	196.60	4,449.3	-549.9	-163.9	-126.8	0.00	0.00	0.00
4,561.8	10.49	196.60	4,510.0	-560.7	-167.1	-129.2	0.00	0.00	0.00
Shannon									
4,600.0	10.49	196.60	4,547.6	-567.3	-169.1	-130.8	0.00	0.00	0.00
4,700.0	10.49	196.60	4,645.9	-584.8	-174.3	-134.8	0.00	0.00	0.00
4,800.0	10.49	196.60	4,744.3	-602.2	-179.5	-138.8	0.00	0.00	0.00
4,834.7	10.49	196.60	4,778.4	-608.3	-181.3	-140.2	0.00	0.00	0.00
Start Drop -2.00									
4,900.0	9.18	196.60	4,842.7	-619.0	-184.5	-142.7	2.00	-2.00	0.00
5,000.0	7.18	196.60	4,941.7	-632.6	-188.6	-145.8	2.00	-2.00	0.00
5,100.0	5.18	196.60	5,041.1	-643.0	-191.7	-148.2	2.00	-2.00	0.00
5,200.0	3.18	196.60	5,140.8	-649.9	-193.7	-149.8	2.00	-2.00	0.00
5,300.0	1.18	196.60	5,240.8	-653.6	-194.8	-150.7	2.00	-2.00	0.00
5,359.2	0.00	0.00	5,300.0	-654.2	-195.0	-150.8	2.00	-2.00	0.00
5,400.0	0.00	0.00	5,340.8	-654.2	-195.0	-150.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,440.8	-654.2	-195.0	-150.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,540.8	-654.2	-195.0	-150.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,640.8	-654.2	-195.0	-150.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,740.8	-654.2	-195.0	-150.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,840.8	-654.2	-195.0	-150.8	0.00	0.00	0.00
5,936.8	0.00	0.00	5,877.6	-654.2	-195.0	-150.8	0.00	0.00	0.00
KOP #2 - Start Build 7.50									
6,000.0	4.74	90.00	5,940.7	-654.2	-192.4	-148.2	7.50	7.50	0.00
6,100.0	12.24	90.00	6,039.5	-654.2	-177.6	-133.5	7.50	7.50	0.00
6,200.0	19.74	90.00	6,135.6	-654.2	-150.1	-106.0	7.50	7.50	0.00
6,300.0	27.24	90.00	6,227.2	-654.2	-110.3	-66.3	7.50	7.50	0.00
6,400.0	34.74	90.00	6,312.9	-654.2	-58.8	-15.0	7.50	7.50	0.00
6,414.8	35.85	90.00	6,325.0	-654.2	-50.3	-6.4	7.50	7.50	0.00
Sharon Springs									
6,500.0	42.24	90.00	6,391.1	-654.2	3.3	47.1	7.50	7.50	0.00
6,591.5	49.10	90.00	6,455.0	-654.2	68.7	112.3	7.50	7.50	0.00
Niobrara A									
6,600.0	49.74	90.00	6,460.6	-654.2	75.2	118.8	7.50	7.50	0.00
6,700.0	57.24	90.00	6,520.0	-654.2	155.5	198.9	7.50	7.50	0.00
6,718.8	58.65	90.00	6,530.0	-654.2	171.5	214.9	7.50	7.50	0.00
Niobrara B									
6,800.0	64.74	90.00	6,568.5	-654.2	242.9	286.1	7.50	7.50	0.00
6,900.0	72.24	90.00	6,605.1	-654.2	335.9	378.9	7.50	7.50	0.00
6,934.9	74.85	90.00	6,615.0	-654.2	369.3	412.3	7.50	7.50	0.00
Niobrara C									
7,000.0	79.74	90.00	6,629.3	-654.2	432.8	475.6	7.50	7.50	0.00
7,100.0	87.24	90.00	6,640.7	-654.2	532.1	574.7	7.50	7.50	0.00
7,142.7	90.44	90.00	6,641.5	-654.2	574.8	617.3	7.50	7.50	0.00
Start 9183.0 hold at 7142.7 MD - 7"									
7,200.0	90.44	90.00	6,641.1	-654.2	632.1	674.4	0.00	0.00	0.00
7,300.0	90.44	90.00	6,640.3	-654.2	732.1	774.2	0.00	0.00	0.00
7,400.0	90.44	90.00	6,639.5	-654.2	832.1	874.0	0.00	0.00	0.00
7,500.0	90.44	90.00	6,638.8	-654.2	932.1	973.8	0.00	0.00	0.00
7,600.0	90.44	90.00	6,638.0	-654.2	1,032.1	1,073.5	0.00	0.00	0.00
7,700.0	90.44	90.00	6,637.2	-654.2	1,132.1	1,173.3	0.00	0.00	0.00
7,800.0	90.44	90.00	6,636.5	-654.2	1,232.1	1,273.1	0.00	0.00	0.00
7,900.0	90.44	90.00	6,635.7	-654.2	1,332.1	1,372.9	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26F-302
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26F-302	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)
8,000.0	90.44	90.00	6,634.9	-654.2	1,432.1	1,472.6	0.00	0.00	0.00
8,100.0	90.44	90.00	6,634.2	-654.2	1,532.1	1,572.4	0.00	0.00	0.00
8,200.0	90.44	90.00	6,633.4	-654.2	1,632.1	1,672.2	0.00	0.00	0.00
8,300.0	90.44	90.00	6,632.6	-654.2	1,732.1	1,772.0	0.00	0.00	0.00
8,400.0	90.44	90.00	6,631.9	-654.2	1,832.1	1,871.7	0.00	0.00	0.00
8,500.0	90.44	90.00	6,631.1	-654.2	1,932.1	1,971.5	0.00	0.00	0.00
8,600.0	90.44	90.00	6,630.3	-654.2	2,032.1	2,071.3	0.00	0.00	0.00
8,700.0	90.44	90.00	6,629.6	-654.2	2,132.1	2,171.0	0.00	0.00	0.00
8,800.0	90.44	90.00	6,628.8	-654.2	2,232.1	2,270.8	0.00	0.00	0.00
8,900.0	90.44	90.00	6,628.0	-654.2	2,332.1	2,370.6	0.00	0.00	0.00
9,000.0	90.44	90.00	6,627.3	-654.2	2,432.1	2,470.4	0.00	0.00	0.00
9,100.0	90.44	90.00	6,626.5	-654.2	2,532.0	2,570.1	0.00	0.00	0.00
9,200.0	90.44	90.00	6,625.7	-654.2	2,632.0	2,669.9	0.00	0.00	0.00
9,300.0	90.44	90.00	6,625.0	-654.2	2,732.0	2,769.7	0.00	0.00	0.00
9,400.0	90.44	90.00	6,624.2	-654.2	2,832.0	2,869.5	0.00	0.00	0.00
9,500.0	90.44	90.00	6,623.4	-654.2	2,932.0	2,969.2	0.00	0.00	0.00
9,600.0	90.44	90.00	6,622.6	-654.2	3,032.0	3,069.0	0.00	0.00	0.00
9,700.0	90.44	90.00	6,621.9	-654.2	3,132.0	3,168.8	0.00	0.00	0.00
9,800.0	90.44	90.00	6,621.1	-654.2	3,232.0	3,268.5	0.00	0.00	0.00
9,900.0	90.44	90.00	6,620.3	-654.2	3,332.0	3,368.3	0.00	0.00	0.00
10,000.0	90.44	90.00	6,619.6	-654.2	3,432.0	3,468.1	0.00	0.00	0.00
10,100.0	90.44	90.00	6,618.8	-654.2	3,532.0	3,567.9	0.00	0.00	0.00
10,200.0	90.44	90.00	6,618.0	-654.2	3,632.0	3,667.6	0.00	0.00	0.00
10,300.0	90.44	90.00	6,617.3	-654.2	3,732.0	3,767.4	0.00	0.00	0.00
10,400.0	90.44	90.00	6,616.5	-654.2	3,832.0	3,867.2	0.00	0.00	0.00
10,500.0	90.44	90.00	6,615.7	-654.2	3,932.0	3,967.0	0.00	0.00	0.00
10,600.0	90.44	90.00	6,615.0	-654.2	4,032.0	4,066.7	0.00	0.00	0.00
10,700.0	90.44	90.00	6,614.2	-654.2	4,132.0	4,166.5	0.00	0.00	0.00
10,800.0	90.44	90.00	6,613.4	-654.2	4,232.0	4,266.3	0.00	0.00	0.00
10,900.0	90.44	90.00	6,612.7	-654.2	4,332.0	4,366.1	0.00	0.00	0.00
11,000.0	90.44	90.00	6,611.9	-654.2	4,432.0	4,465.8	0.00	0.00	0.00
11,100.0	90.44	90.00	6,611.1	-654.2	4,532.0	4,565.6	0.00	0.00	0.00
11,200.0	90.44	90.00	6,610.4	-654.2	4,632.0	4,665.4	0.00	0.00	0.00
11,300.0	90.44	90.00	6,609.6	-654.2	4,732.0	4,765.1	0.00	0.00	0.00
11,400.0	90.44	90.00	6,608.8	-654.2	4,832.0	4,864.9	0.00	0.00	0.00
11,500.0	90.44	90.00	6,608.1	-654.2	4,932.0	4,964.7	0.00	0.00	0.00
11,600.0	90.44	90.00	6,607.3	-654.2	5,032.0	5,064.5	0.00	0.00	0.00
11,700.0	90.44	90.00	6,606.5	-654.2	5,132.0	5,164.2	0.00	0.00	0.00
11,800.0	90.44	90.00	6,605.8	-654.2	5,232.0	5,264.0	0.00	0.00	0.00
11,900.0	90.44	90.00	6,605.0	-654.2	5,332.0	5,363.8	0.00	0.00	0.00
12,000.0	90.44	90.00	6,604.2	-654.2	5,432.0	5,463.6	0.00	0.00	0.00
12,100.0	90.44	90.00	6,603.5	-654.2	5,532.0	5,563.3	0.00	0.00	0.00
12,200.0	90.44	90.00	6,602.7	-654.2	5,632.0	5,663.1	0.00	0.00	0.00
12,300.0	90.44	90.00	6,601.9	-654.2	5,732.0	5,762.9	0.00	0.00	0.00
12,400.0	90.44	90.00	6,601.1	-654.2	5,832.0	5,862.6	0.00	0.00	0.00
12,500.0	90.44	90.00	6,600.4	-654.2	5,931.9	5,962.4	0.00	0.00	0.00
12,600.0	90.44	90.00	6,599.6	-654.2	6,031.9	6,062.2	0.00	0.00	0.00
12,700.0	90.44	90.00	6,598.8	-654.2	6,131.9	6,162.0	0.00	0.00	0.00
12,800.0	90.44	90.00	6,598.1	-654.2	6,231.9	6,261.7	0.00	0.00	0.00
12,900.0	90.44	90.00	6,597.3	-654.2	6,331.9	6,361.5	0.00	0.00	0.00
13,000.0	90.44	90.00	6,596.5	-654.2	6,431.9	6,461.3	0.00	0.00	0.00
13,100.0	90.44	90.00	6,595.8	-654.2	6,531.9	6,561.1	0.00	0.00	0.00
13,200.0	90.44	90.00	6,595.0	-654.2	6,631.9	6,660.8	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26F-302
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26F-302	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	6,594.2	-654.2	6,731.9	6,760.6	0.00	0.00	0.00
13,400.0	90.44	90.00	6,593.5	-654.2	6,831.9	6,860.4	0.00	0.00	0.00
13,500.0	90.44	90.00	6,592.7	-654.2	6,931.9	6,960.2	0.00	0.00	0.00
13,600.0	90.44	90.00	6,591.9	-654.2	7,031.9	7,059.9	0.00	0.00	0.00
13,700.0	90.44	90.00	6,591.2	-654.2	7,131.9	7,159.7	0.00	0.00	0.00
13,728.5	90.44	90.00	6,590.9	-654.2	7,160.4	7,188.2	0.00	0.00	0.00
BHL 1130'FNL & 2140'FWL, Sec.25									
13,800.0	90.44	90.00	6,590.4	-654.2	7,231.9	7,259.5	0.00	0.00	0.00
13,900.0	90.44	90.00	6,589.6	-654.2	7,331.9	7,359.2	0.00	0.00	0.00
14,000.0	90.44	90.00	6,588.9	-654.2	7,431.9	7,459.0	0.00	0.00	0.00
14,100.0	90.44	90.00	6,588.1	-654.2	7,531.9	7,558.8	0.00	0.00	0.00
14,200.0	90.44	90.00	6,587.3	-654.2	7,631.9	7,658.6	0.00	0.00	0.00
14,300.0	90.44	90.00	6,586.6	-654.2	7,731.9	7,758.3	0.00	0.00	0.00
14,400.0	90.44	90.00	6,585.8	-654.2	7,831.9	7,858.1	0.00	0.00	0.00
14,500.0	90.44	90.00	6,585.0	-654.2	7,931.9	7,957.9	0.00	0.00	0.00
14,600.0	90.44	90.00	6,584.3	-654.2	8,031.9	8,057.7	0.00	0.00	0.00
14,700.0	90.44	90.00	6,583.5	-654.2	8,131.9	8,157.4	0.00	0.00	0.00
14,800.0	90.44	90.00	6,582.7	-654.2	8,231.9	8,257.2	0.00	0.00	0.00
14,900.0	90.44	90.00	6,581.9	-654.2	8,331.9	8,357.0	0.00	0.00	0.00
15,000.0	90.44	90.00	6,581.2	-654.2	8,431.9	8,456.7	0.00	0.00	0.00
15,100.0	90.44	90.00	6,580.4	-654.2	8,531.9	8,556.5	0.00	0.00	0.00
15,200.0	90.44	90.00	6,579.6	-654.2	8,631.9	8,656.3	0.00	0.00	0.00
15,300.0	90.44	90.00	6,578.9	-654.2	8,731.9	8,756.1	0.00	0.00	0.00
15,400.0	90.44	90.00	6,578.1	-654.2	8,831.9	8,855.8	0.00	0.00	0.00
15,500.0	90.44	90.00	6,577.3	-654.2	8,931.9	8,955.6	0.00	0.00	0.00
15,600.0	90.44	90.00	6,576.6	-654.2	9,031.9	9,055.4	0.00	0.00	0.00
15,700.0	90.44	90.00	6,575.8	-654.2	9,131.9	9,155.2	0.00	0.00	0.00
15,800.0	90.44	90.00	6,575.0	-654.2	9,231.8	9,254.9	0.00	0.00	0.00
15,900.0	90.44	90.00	6,574.3	-654.2	9,331.8	9,354.7	0.00	0.00	0.00
16,000.0	90.44	90.00	6,573.5	-654.2	9,431.8	9,454.5	0.00	0.00	0.00
16,100.0	90.44	90.00	6,572.7	-654.2	9,531.8	9,554.3	0.00	0.00	0.00
16,200.0	90.44	90.00	6,572.0	-654.2	9,631.8	9,654.0	0.00	0.00	0.00
16,300.0	90.44	90.00	6,571.2	-654.2	9,731.8	9,753.8	0.00	0.00	0.00
16,325.7	90.44	90.00	6,571.0	-654.2	9,757.5	9,779.4	0.00	0.00	0.00
TD at 16325.7 - BHL 1160'FNL & 500'FEL, Sec.25									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL 527'FNL & 245'FWL	0.00	0.63	1.0	0.0	0.0	1,381,376.90	3,271,499.05	40.376186	-104.525497
- plan hits target center									
- Point									
BHL 1160'FNL & 500'FE	0.00	0.00	6,571.0	-654.2	9,757.5	1,380,830.00	3,281,262.77	40.374385	-104.490477
- plan hits target center									
- Point									

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26F-302
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26F-302	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 (")	
7,142.7	6,641.5	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,443.1	3,410.0	Parkman		0.00	
4,160.0	4,115.0	Sussex		0.00	
4,561.8	4,510.0	Shannon		0.00	
6,414.8	6,325.0	Sharon Springs		0.00	
6,591.5	6,455.0	Niobrara A		0.00	
6,718.8	6,530.0	Niobrara B		0.00	
6,934.9	6,615.0	Niobrara C		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.0	1,000.0	0.0	0.0	KOP - Start Build 1.50	
4,834.7	4,778.4	-61.2	-18.2	Start Drop -2.00	
5,936.8	5,877.6	-608.3	-181.3	KOP #2 - Start Build 7.50	
7,142.7	6,641.5	-654.2	-195.0	Start 9183.0 hold at 7142.7 MD	
16,325.7	6,571.0	-654.2	-195.0	TD at 16325.7	



Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Connie 5N64W26EF Pad Sec.26-T5N-R64W

Connie 26F-302

Wellbore #1

Plan #1 Extension (3-4-16)

Anticollision Report

10 March, 2016



Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 Extension (3-4-16)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0 ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 3/10/2016			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	16,325.7	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-332 - Wellbore #1 - Plan #1 Extension (3-4-1	1,000.0	999.0	29.9	25.6	7.006	CC, ES
Connie 26E-332 - Wellbore #1 - Plan #1 Extension (3-4-1	16,325.7	16,277.5	660.1	109.5	1.199	Level 2, SF
Connie 26E-402 - Wellbore #1 - Plan #1 Extension (3-4-	1,000.0	999.0	45.0	40.7	10.543	CC, ES
Connie 26E-402 - Wellbore #1 - Plan #1 Extension (3-4-	16,325.7	16,362.7	979.4	432.3	1.790	SF
Connie 26F-212 - Wellbore #1 - Plan #1 Extension (3-4-1	1,000.0	999.0	14.8	10.5	3.468	CC
Connie 26F-212 - Wellbore #1 - Plan #1 Extension (3-4-1	16,325.7	16,217.9	295.9	-244.1	0.548	Level 1, ES, SF
Connie 26F-402 - Wellbore #1 - Plan #1 Extension (3-4-1	800.0	800.0	15.1	11.7	4.479	CC
Connie 26F-402 - Wellbore #1 - Plan #1 Extension (3-4-1	16,325.7	16,451.8	332.5	-182.9	0.645	Level 1, ES, SF
Existing Wells Pad Sec.26-T5N-R64W						
Bihain 26-1 (Exist.) - Wellbore #1 - Wellbore #1	8,307.1	6,604.6	525.3	341.4	2.857	CC, ES, SF
Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1	1,368.1	1,344.6	432.1	425.9	69.827	CC
Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1	1,500.0	1,476.4	432.3	425.5	63.737	ES
Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1	7,100.0	6,624.2	490.8	455.7	14.008	SF
Bihain 5 (Exist.) - Wellbore #1 - Wellbore #1	7,600.5	6,615.4	152.0	106.4	3.334	CC, ES, SF
Kuner 8-2-25 Pad Sec.25-T5N-R64W						
Kuner 1-25 - Wellbore #1 - Wellbore #1	15,502.6	6,679.6	145.7	-129.7	0.529	Level 1, CC, ES, SF
Kuner 31-25 - Wellbore #1 - Wellbore #1	14,837.2	6,901.1	483.3	213.8	1.793	CC, ES, SF
Kuner 32-25 - Wellbore #1 - Wellbore #1	14,856.7	6,918.4	807.4	537.8	2.995	CC
Kuner 32-25 - Wellbore #1 - Wellbore #1	14,900.0	6,916.7	808.6	537.7	2.985	ES, SF
Kuner 41-25 - Wellbore #1 - Wellbore #1	16,128.2	6,606.8	514.5	228.7	1.800	CC, ES, SF
Kuner 42-25 - Wellbore #1 - Wellbore #1	16,167.5	6,637.7	795.3	508.2	2.770	CC
Kuner 42-25 - Wellbore #1 - Wellbore #1	16,200.0	6,638.2	795.9	507.9	2.764	ES, SF
Kuner 6-0-25 - Wellbore #1 - Wellbore #1						Out of range
Kuner 6-4-25 - Wellbore #1 - Wellbore #1						Out of range
Kuner 8-2-25 - Wellbore #1 - Wellbore #1	16,325.7	6,557.1	478.8	189.6	1.655	CC, ES, SF

Offset Design	Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26E-332 - Wellbore #1 - Plan #1 Extension (3-4-											Offset Site Error:	0.0 ft
Survey Program:	0-MWD											Offset Well Error:	0.0 ft
Reference	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	35.29	24.4	17.3	29.9				

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
100.0	100.0	99.0	99.0	0.1	0.1	35.29	24.4	17.3	29.9	29.7	0.22	133.708		
200.0	200.0	199.0	199.0	0.3	0.3	35.29	24.4	17.3	29.9	29.2	0.67	44.495		
300.0	300.0	299.0	299.0	0.6	0.6	35.29	24.4	17.3	29.9	28.8	1.12	26.662		
400.0	400.0	399.0	399.0	0.8	0.8	35.29	24.4	17.3	29.9	28.3	1.57	19.033		
500.0	500.0	499.0	499.0	1.0	1.0	35.29	24.4	17.3	29.9	27.9	2.02	14.799		
600.0	600.0	599.0	599.0	1.2	1.2	35.29	24.4	17.3	29.9	27.4	2.47	12.106		
700.0	700.0	699.0	699.0	1.5	1.5	35.29	24.4	17.3	29.9	27.0	2.92	10.242		
800.0	800.0	799.0	799.0	1.7	1.7	35.29	24.4	17.3	29.9	26.5	3.37	8.875		
900.0	900.0	899.0	899.0	1.9	1.9	35.29	24.4	17.3	29.9	26.1	3.82	7.831		
1,000.0	1,000.0	999.0	999.0	2.1	2.1	35.29	24.4	17.3	29.9	25.6	4.27	7.006 CC, ES		
1,100.0	1,100.0	1,099.0	1,099.0	2.3	2.4	-162.08	24.4	17.3	31.1	26.5	4.69	6.640		
1,200.0	1,199.9	1,198.9	1,198.9	2.5	2.6	-164.04	24.4	17.3	34.9	29.8	5.09	6.856		
1,300.0	1,299.7	1,298.7	1,298.7	2.7	2.8	-166.52	24.4	17.3	41.2	35.7	5.50	7.501		
1,400.0	1,399.3	1,398.3	1,398.3	2.9	3.0	-168.93	24.4	17.3	50.2	44.3	5.91	8.495		
1,500.0	1,498.6	1,497.6	1,497.6	3.1	3.3	-171.00	24.4	17.3	61.8	55.4	6.32	9.774		
1,600.0	1,597.5	1,596.5	1,596.5	3.4	3.5	-172.66	24.4	17.3	76.0	69.2	6.73	11.285		
1,699.4	1,695.5	1,694.5	1,694.5	3.7	3.7	-173.97	24.4	17.3	92.7	85.5	7.14	12.977		
1,800.0	1,794.4	1,793.4	1,793.4	4.0	3.9	-174.96	24.4	17.3	110.9	103.3	7.58	14.637		
1,900.0	1,892.7	1,891.7	1,891.7	4.3	4.1	-175.67	24.4	17.3	129.1	121.0	8.02	16.101		
2,000.0	1,991.1	1,990.1	1,990.1	4.7	4.4	-176.21	24.4	17.3	147.2	138.8	8.46	17.406		
2,100.0	2,089.4	2,088.4	2,088.4	5.0	4.6	-176.62	24.4	17.3	165.4	156.5	8.90	18.575		
2,200.0	2,187.7	2,186.7	2,186.7	5.4	4.8	-176.96	24.4	17.3	183.6	174.2	9.35	19.626		
2,300.0	2,286.1	2,285.1	2,285.1	5.7	5.0	-177.23	24.4	17.3	201.8	192.0	9.81	20.575		
2,400.0	2,384.4	2,383.4	2,383.4	6.1	5.2	-177.46	24.4	17.3	220.0	209.7	10.26	21.436		
2,500.0	2,482.7	2,481.7	2,481.7	6.5	5.5	-177.65	24.4	17.3	238.1	227.4	10.72	22.220		
2,600.0	2,581.0	2,580.0	2,580.0	6.9	5.7	-177.82	24.4	17.3	256.3	245.2	11.18	22.936		
2,700.0	2,679.4	2,678.4	2,678.4	7.3	5.9	-177.97	24.4	17.3	274.5	262.9	11.64	23.593		
2,800.0	2,777.7	2,776.7	2,776.7	7.7	6.1	-178.09	24.4	17.3	292.7	280.6	12.10	24.197		
2,900.0	2,876.0	2,876.7	2,876.7	8.1	6.3	-178.29	24.4	16.8	310.7	298.2	12.55	24.755		
3,000.0	2,974.4	2,977.3	2,977.3	8.5	6.5	-178.75	24.2	14.5	328.1	315.1	12.99	25.248		
3,100.0	3,072.7	3,078.1	3,078.0	8.9	6.7	-179.44	23.8	10.6	344.8	331.4	13.44	25.658		
3,200.0	3,171.0	3,178.9	3,178.7	9.3	6.9	179.67	23.3	4.8	360.9	347.0	13.89	25.988		
3,300.0	3,269.3	3,279.8	3,279.2	9.7	7.2	178.60	22.7	-2.7	376.5	362.2	14.35	26.245		
3,400.0	3,367.7	3,380.6	3,379.6	10.1	7.4	177.37	21.9	-12.0	391.6	376.8	14.81	26.438		
3,500.0	3,466.0	3,481.3	3,479.7	10.5	7.6	176.00	20.9	-23.0	406.4	391.1	15.29	26.571		
3,600.0	3,564.3	3,580.8	3,578.5	10.9	7.8	174.53	19.8	-35.5	420.9	405.1	15.79	26.658		
3,700.0	3,662.7	3,679.2	3,676.0	11.3	8.1	173.15	18.7	-48.0	435.6	419.3	16.30	26.733		
3,800.0	3,761.0	3,777.6	3,773.6	11.7	8.3	171.86	17.6	-60.6	450.6	433.8	16.81	26.800		
3,900.0	3,859.3	3,876.0	3,871.2	12.1	8.6	170.64	16.5	-73.2	465.7	448.4	17.34	26.859		
4,000.0	3,957.6	3,974.4	3,968.7	12.5	8.8	169.51	15.4	-85.7	481.1	463.2	17.88	26.911		
4,100.0	4,056.0	4,072.7	4,066.3	12.9	9.1	168.44	14.3	-98.3	496.6	478.2	18.42	26.957		
4,200.0	4,154.3	4,171.1	4,163.8	13.3	9.4	167.44	13.3	-110.8	512.3	493.3	18.98	26.996		
4,300.0	4,252.6	4,269.5	4,261.4	13.7	9.6	166.50	12.2	-123.4	528.1	508.6	19.54	27.031		
4,400.0	4,351.0	4,367.9	4,359.0	14.1	9.9	165.61	11.1	-135.9	544.1	524.0	20.10	27.062		
4,500.0	4,449.3	4,466.2	4,456.5	14.6	10.2	164.78	10.0	-148.5	560.1	539.5	20.68	27.088		
4,600.0	4,547.6	4,564.6	4,554.1	15.0	10.4	163.99	8.9	-161.1	576.3	555.1	21.26	27.111		
4,700.0	4,645.9	4,662.6	4,651.3	15.4	10.7	163.25	7.8	-173.5	592.6	570.8	21.84	27.140		
4,800.0	4,744.3	4,759.4	4,747.6	15.8	10.9	162.77	6.9	-183.6	609.2	586.8	22.36	27.248		
4,834.7	4,778.4	4,793.0	4,781.1	15.9	11.0	162.68	6.7	-186.4	615.0	592.5	22.53	27.298		
4,900.0	4,842.7	4,856.4	4,844.3	16.2	11.2	162.65	6.3	-190.5	625.3	602.5	22.87	27.348		
5,000.0	4,941.7	4,953.9	4,941.7	16.4	11.3	162.78	6.0	-194.1	638.7	615.3	23.32	27.391		

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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		
5,100.0	5,041.1	5,052.3	5,040.1	16.6	11.5	163.06	5.9	-194.7	648.9	625.2	23.72	27.362		
5,200.0	5,140.8	5,152.0	5,139.8	16.8	11.7	163.29	5.9	-194.7	655.9	631.8	24.10	27.221		
5,300.0	5,240.8	5,251.9	5,239.8	17.0	11.9	163.41	5.9	-194.7	659.5	635.1	24.45	26.970		
5,359.2	5,300.0	5,311.2	5,299.0	17.1	12.1	0.02	5.9	-194.7	660.1	632.0	28.13	23.465		
5,400.0	5,340.8	5,351.9	5,339.8	17.1	12.1	0.02	5.9	-194.7	660.1	631.9	28.28	23.344		
5,500.0	5,440.8	5,451.9	5,439.8	17.3	12.4	0.02	5.9	-194.7	660.1	631.5	28.62	23.064		
5,600.0	5,540.8	5,551.9	5,539.8	17.4	12.6	0.02	5.9	-194.7	660.1	631.2	28.97	22.789		
5,700.0	5,640.8	5,651.9	5,639.8	17.5	12.8	0.02	5.9	-194.7	660.1	630.8	29.32	22.518		
5,800.0	5,740.8	5,751.9	5,739.8	17.6	13.0	0.02	5.9	-194.7	660.1	630.5	29.67	22.252		
5,900.0	5,840.8	5,851.9	5,839.8	17.8	13.2	0.02	5.9	-194.7	660.1	630.1	30.02	21.991		
5,936.8	5,877.6	5,888.8	5,876.6	17.8	13.3	0.02	5.9	-194.7	660.1	630.0	30.15	21.896		
5,950.0	5,890.8	5,901.9	5,889.8	17.8	13.3	-89.98	5.9	-194.6	660.1	633.2	26.93	24.508		
6,000.0	5,940.7	5,951.9	5,939.7	17.9	13.4	-89.98	5.9	-192.2	660.1	633.0	27.10	24.361		
6,050.0	5,990.3	6,001.9	5,989.3	18.0	13.5	-89.99	5.9	-186.5	660.1	632.9	27.24	24.238		
6,100.0	6,039.5	6,051.9	6,038.5	18.0	13.5	-89.99	5.9	-177.6	660.1	632.8	27.35	24.136		
6,150.0	6,088.0	6,101.9	6,087.0	18.0	13.6	-90.00	5.9	-165.5	660.1	632.7	27.45	24.048		
6,180.9	6,117.6	6,132.8	6,116.6	18.0	13.6	-90.00	5.9	-156.4	660.1	632.6	27.51	23.999		
6,200.0	6,135.6	6,151.9	6,134.6	18.1	13.6	-90.01	5.9	-150.2	660.1	632.6	27.54	23.969		
6,250.0	6,182.1	6,201.9	6,181.1	18.1	13.7	-90.01	5.9	-131.8	660.1	632.5	27.63	23.891		
6,300.0	6,227.2	6,251.9	6,226.3	18.1	13.7	-90.02	5.9	-110.5	660.1	632.4	27.73	23.803		
6,350.0	6,270.9	6,301.9	6,270.1	18.1	13.8	-90.02	5.9	-86.2	660.1	632.3	27.86	23.693		
6,400.0	6,312.9	6,351.9	6,312.1	18.1	13.9	-90.03	5.9	-59.1	660.1	632.1	28.04	23.547		
6,450.0	6,353.0	6,402.0	6,352.3	18.2	14.1	-90.03	5.9	-29.3	660.1	631.9	28.27	23.350		
6,500.0	6,391.1	6,452.0	6,390.4	18.2	14.2	-90.04	5.9	3.0	660.1	631.5	28.59	23.088		
6,550.0	6,427.0	6,502.0	6,426.4	18.2	14.5	-90.05	5.9	37.8	660.1	631.1	29.02	22.749		
6,600.0	6,460.6	6,552.1	6,460.0	18.3	14.8	-90.05	5.9	74.8	660.1	630.6	29.57	22.325		
6,650.0	6,491.6	6,602.1	6,491.1	18.3	15.1	-90.05	5.9	114.0	660.1	629.9	30.26	21.813		
6,700.0	6,520.0	6,652.2	6,519.6	18.4	15.6	-90.06	5.9	155.2	660.1	629.0	31.11	21.216		
6,750.0	6,545.7	6,702.2	6,545.3	18.6	16.1	-90.06	5.9	198.1	660.1	628.0	32.13	20.544		
6,800.0	6,568.5	6,752.2	6,568.2	18.8	16.7	-90.07	5.9	242.6	660.1	626.8	33.32	19.812		
6,850.0	6,588.3	6,802.3	6,588.1	19.1	17.4	-90.07	5.9	288.5	660.1	625.5	34.68	19.038		
6,900.0	6,605.1	6,852.4	6,604.9	19.6	18.2	-90.07	5.9	335.6	660.1	623.9	36.19	18.241		
6,950.0	6,618.8	6,902.4	6,618.7	20.2	19.0	-90.08	5.9	383.7	660.1	622.3	37.85	17.439		
7,000.0	6,629.3	6,952.5	6,629.2	20.9	19.9	-90.08	5.9	432.7	660.1	620.5	39.65	16.650		
7,050.0	6,636.6	7,002.5	6,636.6	21.7	20.9	-90.08	5.9	482.2	660.1	618.6	41.55	15.886		
7,100.0	6,640.7	7,052.6	6,640.6	22.6	21.9	-90.08	5.9	532.1	660.1	616.6	43.55	15.157		
7,142.7	6,641.5	7,095.4	6,641.5	23.5	22.7	-90.09	5.9	574.8	660.1	614.8	45.32	14.566		
7,200.0	6,641.1	7,152.7	6,641.1	24.6	24.0	-90.09	5.9	632.1	660.1	612.4	47.78	13.816		
7,300.0	6,640.3	7,252.7	6,640.3	26.8	26.2	-90.09	5.9	732.1	660.1	607.9	52.25	12.635		
7,400.0	6,639.5	7,352.7	6,639.5	29.1	28.5	-90.09	5.9	832.1	660.1	603.2	56.92	11.598		
7,500.0	6,638.8	7,452.7	6,638.8	31.4	31.0	-90.09	5.9	932.1	660.1	598.4	61.75	10.691		
7,600.0	6,638.0	7,552.7	6,638.0	33.9	33.4	-90.09	5.9	1,032.1	660.1	593.4	66.70	9.897		
7,700.0	6,637.2	7,652.7	6,637.2	36.4	36.0	-90.09	5.9	1,132.1	660.1	588.4	71.76	9.200		
7,800.0	6,636.5	7,752.7	6,636.5	38.9	38.5	-90.09	5.9	1,232.1	660.1	583.2	76.89	8.586		
7,900.0	6,635.7	7,852.7	6,635.7	41.5	41.1	-90.09	5.9	1,332.1	660.1	578.1	82.08	8.042		
8,000.0	6,634.9	7,952.7	6,634.9	44.1	43.7	-90.09	5.9	1,432.1	660.1	572.8	87.33	7.559		
8,100.0	6,634.2	8,052.7	6,634.2	46.7	46.4	-90.09	5.9	1,532.1	660.1	567.5	92.62	7.127		
8,200.0	6,633.4	8,152.7	6,633.4	49.3	49.1	-90.09	5.9	1,632.1	660.1	562.2	97.95	6.739		
8,300.0	6,632.6	8,252.7	6,632.6	52.0	51.7	-90.09	5.9	1,732.1	660.1	556.8	103.31	6.390		
8,400.0	6,631.9	8,352.7	6,631.9	54.7	54.4	-90.09	5.9	1,832.1	660.1	551.4	108.70	6.073		
8,500.0	6,631.1	8,452.7	6,631.1	57.3	57.1	-90.09	5.9	1,932.1	660.1	546.0	114.10	5.785		

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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		
8,600.0	6,630.3	8,552.7	6,630.3	60.0	59.8	-90.09	5.9	2,032.1	660.1	540.6	119.53	5.523		
8,700.0	6,629.6	8,652.7	6,629.6	62.8	62.6	-90.09	5.9	2,132.1	660.1	535.2	124.98	5.282		
8,800.0	6,628.8	8,752.7	6,628.8	65.5	65.3	-90.09	5.9	2,232.1	660.1	529.7	130.44	5.061		
8,900.0	6,628.0	8,852.7	6,628.0	68.2	68.0	-90.09	5.9	2,332.1	660.1	524.2	135.91	4.857		
9,000.0	6,627.3	8,952.7	6,627.3	70.9	70.8	-90.09	5.9	2,432.1	660.1	518.7	141.39	4.669		
9,100.0	6,626.5	9,052.7	6,626.5	73.7	73.5	-90.09	5.9	2,532.1	660.1	513.2	146.89	4.494		
9,200.0	6,625.7	9,152.7	6,625.7	76.4	76.3	-90.09	5.9	2,632.1	660.1	507.7	152.39	4.332		
9,300.0	6,625.0	9,252.7	6,624.9	79.2	79.0	-90.09	5.9	2,732.0	660.1	502.2	157.90	4.181		
9,400.0	6,624.2	9,352.7	6,624.2	81.9	81.8	-90.09	5.9	2,832.0	660.1	496.7	163.42	4.039		
9,500.0	6,623.4	9,452.7	6,623.4	84.7	84.5	-90.09	5.9	2,932.0	660.1	491.2	168.95	3.907		
9,600.0	6,622.6	9,552.7	6,622.6	87.4	87.3	-90.09	5.9	3,032.0	660.1	485.7	174.48	3.783		
9,700.0	6,621.9	9,652.7	6,621.9	90.2	90.1	-90.09	5.9	3,132.0	660.1	480.1	180.02	3.667		
9,800.0	6,621.1	9,752.7	6,621.1	92.9	92.9	-90.09	5.9	3,232.0	660.1	474.6	185.56	3.557		
9,900.0	6,620.3	9,852.7	6,620.3	95.7	95.6	-90.09	5.9	3,332.0	660.1	469.0	191.11	3.454		
10,000.0	6,619.6	9,952.7	6,619.6	98.5	98.4	-90.09	5.9	3,432.0	660.1	463.5	196.66	3.357		
10,100.0	6,618.8	10,052.7	6,618.8	101.3	101.2	-90.09	5.9	3,532.0	660.1	457.9	202.21	3.265		
10,200.0	6,618.0	10,152.7	6,618.0	104.0	104.0	-90.09	5.9	3,632.0	660.1	452.4	207.77	3.177		
10,300.0	6,617.3	10,252.7	6,617.3	106.8	106.7	-90.09	5.9	3,732.0	660.1	446.8	213.33	3.094		
10,400.0	6,616.5	10,352.7	6,616.5	109.6	109.5	-90.09	5.9	3,832.0	660.1	441.2	218.90	3.016		
10,500.0	6,615.7	10,452.7	6,615.7	112.4	112.3	-90.09	5.9	3,932.0	660.1	435.7	224.47	2.941		
10,600.0	6,615.0	10,552.7	6,615.0	115.1	115.1	-90.09	5.9	4,032.0	660.1	430.1	230.04	2.870		
10,700.0	6,614.2	10,652.7	6,614.2	117.9	117.9	-90.09	5.9	4,132.0	660.1	424.5	235.61	2.802		
10,800.0	6,613.4	10,752.7	6,613.4	120.7	120.7	-90.09	5.9	4,232.0	660.1	419.0	241.18	2.737		
10,900.0	6,612.7	10,852.7	6,612.7	123.5	123.4	-90.09	5.9	4,332.0	660.1	413.4	246.76	2.675		
11,000.0	6,611.9	10,952.7	6,611.9	126.3	126.2	-90.09	5.9	4,432.0	660.1	407.8	252.34	2.616		
11,100.0	6,611.1	11,052.7	6,611.1	129.1	129.0	-90.09	5.9	4,532.0	660.1	402.2	257.92	2.559		
11,200.0	6,610.4	11,152.7	6,610.4	131.8	131.8	-90.09	5.9	4,632.0	660.1	396.6	263.50	2.505		
11,300.0	6,609.6	11,252.7	6,609.6	134.6	134.6	-90.09	5.9	4,732.0	660.1	391.0	269.08	2.453		
11,400.0	6,608.8	11,352.7	6,608.8	137.4	137.4	-90.09	5.9	4,832.0	660.1	385.5	274.67	2.403		
11,500.0	6,608.1	11,452.7	6,608.1	140.2	140.2	-90.09	5.9	4,932.0	660.1	379.9	280.25	2.355		
11,600.0	6,607.3	11,552.7	6,607.3	143.0	143.0	-90.09	5.9	5,032.0	660.1	374.3	285.84	2.309		
11,700.0	6,606.5	11,652.7	6,606.5	145.8	145.8	-90.09	5.9	5,132.0	660.1	368.7	291.43	2.265		
11,800.0	6,605.8	11,752.7	6,605.7	148.6	148.6	-90.09	5.9	5,232.0	660.1	363.1	297.02	2.223		
11,900.0	6,605.0	11,852.7	6,605.0	151.4	151.4	-90.09	5.9	5,332.0	660.1	357.5	302.61	2.181		
12,000.0	6,604.2	11,952.7	6,604.2	154.2	154.2	-90.09	5.9	5,432.0	660.1	351.9	308.20	2.142		
12,100.0	6,603.5	12,052.7	6,603.4	157.0	157.0	-90.09	5.9	5,532.0	660.1	346.3	313.80	2.104		
12,200.0	6,602.7	12,152.7	6,602.7	159.8	159.8	-90.09	5.9	5,632.0	660.1	340.7	319.39	2.067		
12,300.0	6,601.9	12,252.7	6,601.9	162.6	162.6	-90.09	5.9	5,732.0	660.1	335.1	324.99	2.031		
12,400.0	6,601.1	12,352.7	6,601.1	165.4	165.4	-90.09	5.9	5,832.0	660.1	329.5	330.58	1.997		
12,500.0	6,600.4	12,452.7	6,600.4	168.2	168.2	-90.09	5.9	5,932.0	660.1	324.0	336.18	1.964		
12,600.0	6,599.6	12,552.7	6,599.6	171.0	171.0	-90.09	5.9	6,032.0	660.1	318.4	341.78	1.931		
12,700.0	6,598.8	12,652.7	6,598.8	173.7	173.8	-90.09	5.9	6,131.9	660.1	312.8	347.38	1.900		
12,800.0	6,598.1	12,752.7	6,598.1	176.5	176.6	-90.09	5.9	6,231.9	660.1	307.2	352.97	1.870		
12,900.0	6,597.3	12,852.7	6,597.3	179.3	179.4	-90.09	5.9	6,331.9	660.1	301.6	358.57	1.841		
13,000.0	6,596.5	12,952.7	6,596.5	182.1	182.2	-90.09	5.9	6,431.9	660.1	296.0	364.17	1.813		
13,100.0	6,595.8	13,052.7	6,595.8	184.9	185.0	-90.09	5.9	6,531.9	660.1	290.4	369.78	1.785		
13,200.0	6,595.0	13,152.7	6,595.0	187.7	187.8	-90.09	5.9	6,631.9	660.1	284.8	375.38	1.759		
13,300.0	6,594.2	13,252.7	6,594.2	190.5	190.6	-90.09	5.9	6,731.9	660.1	279.2	380.98	1.733		
13,400.0	6,593.5	13,352.7	6,593.5	193.3	193.4	-90.09	5.9	6,831.9	660.1	273.6	386.58	1.708		
13,500.0	6,592.7	13,452.7	6,592.7	196.1	196.2	-90.09	5.9	6,931.9	660.1	267.9	392.18	1.683		
13,600.0	6,591.9	13,552.7	6,591.9	198.9	199.0	-90.09	5.9	7,031.9	660.1	262.3	397.79	1.660		

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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)				
13,700.0	6,591.2	13,652.7	6,591.2	201.7	201.8	-90.09	5.9	7,131.9	660.1	256.7	403.39	1.636			
13,800.0	6,590.4	13,752.7	6,590.4	204.5	204.6	-90.09	5.9	7,231.9	660.1	251.1	409.00	1.614			
13,900.0	6,589.6	13,852.7	6,589.6	207.3	207.4	-90.09	5.9	7,331.9	660.1	245.5	414.60	1.592			
14,000.0	6,588.9	13,952.7	6,588.9	210.1	210.2	-90.09	5.9	7,431.9	660.1	239.9	420.21	1.571			
14,100.0	6,588.1	14,052.7	6,588.1	212.9	213.0	-90.09	5.9	7,531.9	660.1	234.3	425.81	1.550			
14,200.0	6,587.3	14,152.7	6,587.3	215.7	215.8	-90.09	5.9	7,631.9	660.1	228.7	431.42	1.530			
14,300.0	6,586.6	14,252.7	6,586.6	218.5	218.6	-90.09	5.9	7,731.9	660.1	223.1	437.02	1.511			
14,400.0	6,585.8	14,352.7	6,585.8	221.3	221.4	-90.09	5.9	7,831.9	660.1	217.5	442.63	1.491 Level 3			
14,500.0	6,585.0	14,452.7	6,585.0	224.2	224.2	-90.09	5.9	7,931.9	660.1	211.9	448.24	1.473 Level 3			
14,600.0	6,584.3	14,552.7	6,584.2	227.0	227.0	-90.09	5.9	8,031.9	660.1	206.3	453.84	1.455 Level 3			
14,700.0	6,583.5	14,652.7	6,583.5	229.8	229.8	-90.09	5.9	8,131.9	660.1	200.7	459.45	1.437 Level 3			
14,800.0	6,582.7	14,752.7	6,582.7	232.6	232.6	-90.09	5.9	8,231.9	660.1	195.1	465.06	1.419 Level 3			
14,900.0	6,581.9	14,852.7	6,581.9	235.4	235.4	-90.09	5.9	8,331.9	660.1	189.5	470.67	1.403 Level 3			
15,000.0	6,581.2	14,952.7	6,581.2	238.2	238.2	-90.09	5.9	8,431.9	660.1	183.9	476.28	1.386 Level 3			
15,100.0	6,580.4	15,052.7	6,580.4	241.0	241.0	-90.09	5.9	8,531.9	660.1	178.2	481.88	1.370 Level 3			
15,200.0	6,579.6	15,152.7	6,579.6	243.8	243.8	-90.09	5.9	8,631.9	660.1	172.6	487.49	1.354 Level 3			
15,300.0	6,578.9	15,252.7	6,578.9	246.6	246.6	-90.09	5.9	8,731.9	660.1	167.0	493.10	1.339 Level 3			
15,400.0	6,578.1	15,352.7	6,578.1	249.4	249.4	-90.09	5.9	8,831.9	660.1	161.4	498.71	1.324 Level 3			
15,500.0	6,577.3	15,452.7	6,577.3	252.2	252.2	-90.09	5.9	8,931.9	660.1	155.8	504.32	1.309 Level 3			
15,600.0	6,576.6	15,552.7	6,576.6	255.0	255.0	-90.09	5.9	9,031.9	660.1	150.2	509.93	1.295 Level 3			
15,700.0	6,575.8	15,652.7	6,575.8	257.8	257.8	-90.09	5.9	9,131.9	660.1	144.6	515.54	1.280 Level 3			
15,800.0	6,575.0	15,752.7	6,575.0	260.6	260.6	-90.09	5.9	9,231.9	660.1	139.0	521.15	1.267 Level 3			
15,900.0	6,574.3	15,852.7	6,574.3	263.4	263.4	-90.09	5.9	9,331.9	660.1	133.4	526.76	1.253 Level 3			
16,000.0	6,573.5	15,952.7	6,573.5	266.2	266.3	-90.09	5.9	9,431.9	660.1	127.8	532.37	1.240 Level 2			
16,100.0	6,572.7	16,052.7	6,572.7	269.0	269.1	-90.09	5.9	9,531.8	660.1	122.1	537.98	1.227 Level 2			
16,200.0	6,572.0	16,152.7	6,572.0	271.8	271.9	-90.09	5.9	9,631.8	660.1	116.5	543.60	1.214 Level 2			
16,300.0	6,571.2	16,252.7	6,571.2	274.6	274.7	-90.09	5.9	9,731.8	660.1	110.9	549.21	1.202 Level 2			
16,321.9	6,571.0	16,274.5	6,571.0	275.2	275.3	-90.09	5.9	9,753.7	660.1	109.7	550.44	1.199 Level 2			
16,325.7	6,571.0	16,277.5	6,571.0	275.3	275.4	-90.09	5.9	9,756.7	660.1	109.5	550.63	1.199 Level 2, SF			

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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	35.16	36.8	25.9	45.0				
100.0	100.0	99.0	99.0	0.1	0.1	35.16	36.8	25.9	45.0	44.8	0.22	201.213	
200.0	200.0	199.0	199.0	0.3	0.3	35.16	36.8	25.9	45.0	44.3	0.67	66.959	
300.0	300.0	299.0	299.0	0.6	0.6	35.16	36.8	25.9	45.0	43.9	1.12	40.122	
400.0	400.0	399.0	399.0	0.8	0.8	35.16	36.8	25.9	45.0	43.4	1.57	28.642	
500.0	500.0	499.0	499.0	1.0	1.0	35.16	36.8	25.9	45.0	43.0	2.02	22.270	
600.0	600.0	599.0	599.0	1.2	1.2	35.16	36.8	25.9	45.0	42.5	2.47	18.217	
700.0	700.0	699.0	699.0	1.5	1.5	35.16	36.8	25.9	45.0	42.1	2.92	15.413	
800.0	800.0	799.0	799.0	1.7	1.7	35.16	36.8	25.9	45.0	41.6	3.37	13.356	
900.0	900.0	899.0	899.0	1.9	1.9	35.16	36.8	25.9	45.0	41.2	3.82	11.784	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	35.16	36.8	25.9	45.0	40.7	4.27	10.543 CC, ES	
1,100.0	1,100.0	1,099.0	1,099.0	2.3	2.4	-161.95	36.8	25.9	46.2	41.6	4.69	9.859	
1,200.0	1,199.9	1,198.9	1,198.9	2.5	2.6	-163.33	36.8	25.9	50.0	44.9	5.09	9.820	
1,300.0	1,299.7	1,298.7	1,298.7	2.7	2.8	-165.22	36.8	25.9	56.3	50.8	5.50	10.240	
1,400.0	1,399.3	1,398.3	1,398.3	2.9	3.0	-167.24	36.8	25.9	65.2	59.3	5.91	11.035	
1,500.0	1,498.6	1,497.6	1,497.6	3.1	3.3	-169.15	36.8	25.9	76.7	70.4	6.32	12.137	
1,600.0	1,597.5	1,596.5	1,596.5	3.4	3.5	-170.82	36.8	25.9	90.8	84.1	6.73	13.491	
1,699.4	1,695.5	1,693.3	1,693.3	3.7	3.7	-172.74	37.7	25.2	108.0	100.9	7.14	15.131	
1,800.0	1,794.4	1,790.2	1,790.2	4.0	3.9	-175.21	40.5	23.0	128.0	120.5	7.57	16.919	
1,900.0	1,892.7	1,885.9	1,885.6	4.3	4.1	-177.80	45.2	19.3	149.5	141.5	8.00	18.682	
2,000.0	1,991.1	1,980.7	1,980.0	4.7	4.3	179.61	51.7	14.2	172.5	164.1	8.44	20.439	
2,100.0	2,089.4	2,074.5	2,073.2	5.0	4.6	177.09	60.0	7.8	197.3	188.4	8.89	22.195	
2,200.0	2,187.7	2,170.1	2,168.1	5.4	4.8	174.76	69.6	0.2	223.4	214.1	9.35	23.886	
2,300.0	2,286.1	2,266.2	2,263.4	5.7	5.0	172.91	79.3	-7.4	249.8	240.0	9.82	25.429	
2,400.0	2,384.4	2,362.4	2,358.8	6.1	5.3	171.41	89.0	-15.0	276.4	266.1	10.30	26.829	
2,500.0	2,482.7	2,458.6	2,454.2	6.5	5.6	170.17	98.7	-22.6	303.2	292.4	10.79	28.104	
2,600.0	2,581.0	2,554.7	2,549.5	6.9	5.8	169.13	108.4	-30.2	330.1	318.8	11.28	29.264	
2,700.0	2,679.4	2,650.9	2,644.9	7.3	6.1	168.25	118.2	-37.8	357.0	345.2	11.77	30.324	
2,800.0	2,777.7	2,747.1	2,740.3	7.7	6.4	167.49	127.9	-45.4	384.0	371.8	12.27	31.293	
2,900.0	2,876.0	2,843.2	2,835.6	8.1	6.7	166.83	137.6	-53.1	411.1	398.3	12.77	32.182	
3,000.0	2,974.4	2,939.4	2,931.0	8.5	6.9	166.25	147.3	-60.7	438.2	424.9	13.28	33.000	
3,100.0	3,072.7	3,035.5	3,026.4	8.9	7.2	165.74	157.0	-68.3	465.4	451.6	13.79	33.753	
3,200.0	3,171.0	3,131.7	3,121.8	9.3	7.5	165.29	166.7	-75.9	492.6	478.3	14.30	34.450	
3,300.0	3,269.3	3,227.9	3,217.1	9.7	7.8	164.88	176.4	-83.5	519.8	505.0	14.81	35.095	
3,400.0	3,367.7	3,324.0	3,312.5	10.1	8.1	164.52	186.2	-91.1	547.0	531.7	15.33	35.693	
3,500.0	3,466.0	3,420.2	3,407.9	10.5	8.4	164.19	195.9	-98.7	574.3	558.4	15.84	36.250	
3,600.0	3,564.3	3,516.4	3,503.2	10.9	8.7	163.89	205.6	-106.3	601.5	585.2	16.36	36.770	
3,700.0	3,662.7	3,612.5	3,598.6	11.3	9.0	163.61	215.3	-113.9	628.8	611.9	16.88	37.255	
3,800.0	3,761.0	3,708.7	3,694.0	11.7	9.3	163.36	225.0	-121.6	656.1	638.7	17.40	37.709	
3,900.0	3,859.3	3,804.9	3,789.3	12.1	9.6	163.13	234.7	-129.2	683.4	665.5	17.92	38.135	
4,000.0	3,957.6	3,901.0	3,884.7	12.5	9.9	162.91	244.4	-136.8	710.7	692.3	18.44	38.535	
4,100.0	4,056.0	3,997.2	3,980.1	12.9	10.2	162.71	254.2	-144.4	738.1	719.1	18.97	38.912	
4,200.0	4,154.3	4,093.3	4,075.4	13.3	10.5	162.53	263.9	-152.0	765.4	745.9	19.49	39.266	
4,300.0	4,252.6	4,189.5	4,170.8	13.7	10.8	162.36	273.6	-159.6	792.7	772.7	20.02	39.601	
4,400.0	4,351.0	4,285.7	4,266.2	14.1	11.1	162.20	283.3	-167.2	820.1	799.5	20.54	39.918	
4,500.0	4,449.3	4,381.8	4,361.5	14.6	11.4	162.05	293.0	-174.8	847.4	826.4	21.07	40.217	
4,600.0	4,547.6	4,486.0	4,464.9	15.0	11.7	161.90	303.4	-183.0	874.7	853.1	21.61	40.479	
4,700.0	4,645.9	4,614.7	4,593.0	15.4	12.0	161.90	313.0	-190.5	899.4	877.3	22.12	40.657	
4,800.0	4,744.3	4,745.6	4,723.7	15.8	12.2	162.12	318.1	-194.5	920.6	898.0	22.61	40.716	
4,834.7	4,778.4	4,791.4	4,769.5	15.9	12.3	162.25	318.7	-195.0	927.2	904.4	22.78	40.706	
4,900.0	4,842.7	4,863.6	4,841.7	16.2	12.4	162.54	318.9	-195.1	937.9	914.8	23.11	40.578	

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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	
5,000.0	4,941.7	4,962.6	4,940.7	16.4	12.6	162.88	318.9	-195.1	951.5	927.9	23.59	40.339	
5,100.0	5,041.1	5,062.0	5,040.1	16.6	12.8	163.13	318.9	-195.1	961.8	937.8	24.04	40.011	
5,200.0	5,140.8	5,161.7	5,139.8	16.8	13.0	163.30	318.9	-195.1	968.8	944.4	24.46	39.612	
5,300.0	5,240.8	5,261.7	5,239.8	17.0	13.2	163.38	318.9	-195.1	972.5	947.6	24.84	39.146	
5,359.2	5,300.0	5,320.9	5,299.0	17.1	13.3	-0.01	318.9	-195.1	973.1	943.7	29.40	33.098	
5,400.0	5,340.8	5,361.7	5,339.8	17.1	13.4	-0.01	318.9	-195.1	973.1	943.5	29.54	32.944	
5,500.0	5,440.8	5,461.7	5,439.8	17.3	13.6	-0.01	318.9	-195.1	973.1	943.2	29.86	32.584	
5,600.0	5,540.8	5,561.7	5,539.8	17.4	13.8	-0.01	318.9	-195.1	973.1	942.9	30.19	32.229	
5,700.0	5,640.8	5,661.7	5,639.8	17.5	14.0	-0.01	318.9	-195.1	973.1	942.5	30.52	31.879	
5,800.0	5,740.8	5,761.7	5,739.8	17.6	14.2	-0.01	318.9	-195.1	973.1	942.2	30.86	31.534	
5,900.0	5,840.8	5,861.7	5,839.8	17.8	14.4	-0.01	318.9	-195.1	973.1	941.9	31.19	31.193	
5,936.8	5,877.6	5,898.5	5,876.6	17.8	14.4	-0.01	318.9	-195.1	973.1	941.7	31.32	31.069	
5,950.0	5,890.8	5,911.7	5,889.8	17.8	14.4	-90.01	318.9	-195.1	973.1	945.7	27.33	35.608	
6,000.0	5,940.7	5,961.6	5,939.7	17.9	14.5	-90.16	318.9	-195.1	973.1	945.5	27.52	35.365	
6,050.0	5,990.3	6,011.6	5,989.7	18.0	14.6	-90.45	318.9	-194.4	973.1	945.4	27.68	35.151	
6,100.0	6,039.5	6,062.0	6,039.9	18.0	14.7	-90.76	318.9	-190.6	973.1	945.3	27.82	34.978	
6,150.0	6,088.0	6,112.8	6,090.2	18.0	14.8	-91.07	318.9	-183.4	973.2	945.3	27.94	34.835	
6,200.0	6,135.6	6,163.9	6,140.2	18.1	14.8	-91.37	318.9	-172.8	973.3	945.3	28.04	34.715	
6,250.0	6,182.1	6,215.4	6,189.7	18.1	14.9	-91.67	318.9	-158.8	973.5	945.3	28.13	34.608	
6,300.0	6,227.2	6,267.2	6,238.5	18.1	14.9	-91.96	318.9	-141.4	973.6	945.4	28.22	34.503	
6,350.0	6,270.9	6,319.5	6,286.4	18.1	14.9	-92.24	318.9	-120.5	973.8	945.5	28.32	34.382	
6,400.0	6,312.9	6,372.0	6,333.0	18.1	14.9	-92.51	318.9	-96.2	974.0	945.5	28.46	34.227	
6,450.0	6,353.0	6,425.0	6,378.2	18.2	15.0	-92.78	318.9	-68.6	974.2	945.6	28.64	34.016	
6,500.0	6,391.1	6,478.2	6,421.5	18.2	15.0	-93.03	318.9	-37.7	974.4	945.5	28.89	33.726	
6,550.0	6,427.0	6,531.8	6,462.9	18.2	15.0	-93.27	318.9	-3.6	974.7	945.4	29.24	33.333	
6,600.0	6,460.6	6,585.8	6,502.1	18.3	15.1	-93.49	318.9	33.5	974.9	945.2	29.70	32.819	
6,650.0	6,491.6	6,640.0	6,538.7	18.3	15.2	-93.70	318.9	73.5	975.1	944.8	30.31	32.171	
6,700.0	6,520.0	6,694.5	6,572.5	18.4	15.6	-93.90	318.9	116.2	975.3	944.2	31.08	31.384	
6,750.0	6,545.7	6,749.3	6,603.4	18.6	16.0	-94.07	318.9	161.4	975.5	943.5	32.02	30.466	
6,800.0	6,568.5	6,804.3	6,631.0	18.8	16.6	-94.23	318.9	209.0	975.7	942.6	33.16	29.427	
6,850.0	6,588.3	6,859.6	6,655.2	19.1	17.3	-94.36	318.9	258.6	975.9	941.4	34.48	28.300	
6,900.0	6,605.1	6,915.0	6,675.9	19.6	18.1	-94.48	318.9	310.0	976.0	940.1	36.00	27.116	
6,950.0	6,618.8	6,970.6	6,692.8	20.2	19.0	-94.57	318.9	363.0	976.2	938.5	37.68	25.907	
7,000.0	6,629.3	7,026.3	6,705.8	20.9	19.9	-94.65	318.9	417.1	976.3	936.8	39.52	24.703	
7,050.0	6,636.6	7,082.1	6,714.9	21.7	20.9	-94.70	318.9	472.2	976.3	934.8	41.50	23.528	
7,100.0	6,640.7	7,137.9	6,720.0	22.6	22.0	-94.72	318.9	527.8	976.4	932.8	43.58	22.403	
7,142.7	6,641.5	7,185.3	6,721.0	23.5	23.0	-94.73	318.9	575.2	976.4	931.0	45.43	21.494	
7,200.0	6,641.1	7,242.6	6,720.8	24.6	24.2	-94.74	318.9	632.5	976.4	928.5	47.86	20.402	
7,300.0	6,640.3	7,342.6	6,720.4	26.8	26.4	-94.76	318.9	732.5	976.4	924.2	52.28	18.678	
7,400.0	6,639.5	7,442.6	6,719.9	29.1	28.7	-94.78	318.9	832.5	976.5	919.6	56.91	17.159	
7,500.0	6,638.8	7,542.6	6,719.5	31.4	31.1	-94.80	318.9	932.5	976.5	914.8	61.70	15.828	
7,600.0	6,638.0	7,642.6	6,719.0	33.9	33.6	-94.82	318.9	1,032.4	976.5	909.9	66.61	14.660	
7,700.0	6,637.2	7,742.6	6,718.6	36.4	36.1	-94.84	318.9	1,132.4	976.5	904.9	71.63	13.634	
7,800.0	6,636.5	7,842.6	6,718.2	38.9	38.6	-94.86	318.9	1,232.4	976.6	899.8	76.72	12.728	
7,900.0	6,635.7	7,942.6	6,717.7	41.5	41.2	-94.88	318.9	1,332.4	976.6	894.7	81.89	11.926	
8,000.0	6,634.9	8,042.6	6,717.3	44.1	43.8	-94.90	318.9	1,432.4	976.6	889.5	87.10	11.213	
8,100.0	6,634.2	8,142.6	6,716.9	46.7	46.4	-94.92	318.9	1,532.4	976.7	884.3	92.36	10.574	
8,200.0	6,633.4	8,242.6	6,716.4	49.3	49.1	-94.94	318.9	1,632.4	976.7	879.0	97.66	10.001	
8,300.0	6,632.6	8,342.6	6,716.0	52.0	51.8	-94.96	318.9	1,732.4	976.7	873.7	102.99	9.484	
8,400.0	6,631.9	8,442.6	6,715.6	54.7	54.4	-94.97	318.9	1,832.4	976.7	868.4	108.34	9.015	
8,500.0	6,631.1	8,542.6	6,715.1	57.3	57.1	-94.99	318.9	1,932.4	976.8	863.0	113.72	8.589	

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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		
8,600.0	6,630.3	8,642.6	6,714.7	60.0	59.9	-95.01	318.9	2,032.4	976.8	857.7	119.12	8.200		
8,700.0	6,629.6	8,742.6	6,714.2	62.8	62.6	-95.03	318.9	2,132.4	976.8	852.3	124.54	7.844		
8,800.0	6,628.8	8,842.6	6,713.8	65.5	65.3	-95.05	318.9	2,232.4	976.9	846.9	129.97	7.516		
8,900.0	6,628.0	8,942.6	6,713.4	68.2	68.0	-95.07	318.9	2,332.4	976.9	841.5	135.41	7.214		
9,000.0	6,627.3	9,042.6	6,712.9	70.9	70.8	-95.09	318.9	2,432.4	976.9	836.0	140.87	6.935		
9,100.0	6,626.5	9,142.6	6,712.5	73.7	73.5	-95.11	318.9	2,532.4	976.9	830.6	146.33	6.676		
9,200.0	6,625.7	9,242.6	6,712.1	76.4	76.2	-95.13	318.9	2,632.4	977.0	825.2	151.81	6.436		
9,300.0	6,625.0	9,342.6	6,711.6	79.2	79.0	-95.15	318.9	2,732.4	977.0	819.7	157.29	6.211		
9,400.0	6,624.2	9,442.6	6,711.2	81.9	81.8	-95.17	318.9	2,832.4	977.0	814.3	162.78	6.002		
9,500.0	6,623.4	9,542.6	6,710.8	84.7	84.5	-95.19	318.9	2,932.4	977.1	808.8	168.28	5.806		
9,600.0	6,622.6	9,642.6	6,710.3	87.4	87.3	-95.21	318.9	3,032.4	977.1	803.3	173.78	5.623		
9,700.0	6,621.9	9,742.6	6,709.9	90.2	90.0	-95.23	318.9	3,132.4	977.1	797.8	179.29	5.450		
9,800.0	6,621.1	9,842.6	6,709.4	92.9	92.8	-95.25	318.9	3,232.4	977.2	792.4	184.80	5.288		
9,900.0	6,620.3	9,942.6	6,709.0	95.7	95.6	-95.26	318.9	3,332.4	977.2	786.9	190.32	5.135		
10,000.0	6,619.6	10,042.6	6,708.6	98.5	98.3	-95.28	318.9	3,432.4	977.2	781.4	195.84	4.990		
10,100.0	6,618.8	10,142.6	6,708.1	101.3	101.1	-95.30	318.9	3,532.4	977.2	775.9	201.36	4.853		
10,200.0	6,618.0	10,242.6	6,707.7	104.0	103.9	-95.32	318.9	3,632.4	977.3	770.4	206.89	4.724		
10,300.0	6,617.3	10,342.6	6,707.3	106.8	106.7	-95.34	318.9	3,732.4	977.3	764.9	212.42	4.601		
10,400.0	6,616.5	10,442.6	6,706.8	109.6	109.5	-95.36	318.9	3,832.4	977.3	759.4	217.95	4.484		
10,500.0	6,615.7	10,542.6	6,706.4	112.4	112.2	-95.38	318.9	3,932.4	977.4	753.9	223.49	4.373		
10,600.0	6,615.0	10,642.6	6,706.0	115.1	115.0	-95.40	318.9	4,032.4	977.4	748.4	229.03	4.268		
10,700.0	6,614.2	10,742.6	6,705.5	117.9	117.8	-95.42	318.9	4,132.4	977.4	742.9	234.57	4.167		
10,800.0	6,613.4	10,842.6	6,705.1	120.7	120.6	-95.44	318.9	4,232.4	977.5	737.4	240.11	4.071		
10,900.0	6,612.7	10,942.6	6,704.6	123.5	123.4	-95.46	318.9	4,332.4	977.5	731.8	245.65	3.979		
11,000.0	6,611.9	11,042.6	6,704.2	126.3	126.2	-95.48	318.9	4,432.4	977.5	726.3	251.20	3.891		
11,100.0	6,611.1	11,142.6	6,703.8	129.1	129.0	-95.50	318.9	4,532.4	977.6	720.8	256.74	3.808		
11,200.0	6,610.4	11,242.6	6,703.3	131.8	131.7	-95.52	318.9	4,632.4	977.6	715.3	262.29	3.727		
11,300.0	6,609.6	11,342.6	6,702.9	134.6	134.5	-95.54	318.9	4,732.4	977.6	709.8	267.84	3.650		
11,400.0	6,608.8	11,442.6	6,702.5	137.4	137.3	-95.56	318.9	4,832.4	977.7	704.3	273.39	3.576		
11,500.0	6,608.1	11,542.6	6,702.0	140.2	140.1	-95.57	318.9	4,932.4	977.7	698.7	278.94	3.505		
11,600.0	6,607.3	11,642.6	6,701.6	143.0	142.9	-95.59	318.9	5,032.4	977.7	693.2	284.50	3.437		
11,700.0	6,606.5	11,742.6	6,701.2	145.8	145.7	-95.61	318.9	5,132.4	977.8	687.7	290.05	3.371		
11,800.0	6,605.8	11,842.6	6,700.7	148.6	148.5	-95.63	318.9	5,232.4	977.8	682.2	295.61	3.308		
11,900.0	6,605.0	11,942.6	6,700.3	151.4	151.3	-95.65	318.9	5,332.4	977.8	676.7	301.16	3.247		
12,000.0	6,604.2	12,042.6	6,699.8	154.2	154.1	-95.67	318.9	5,432.4	977.9	671.1	306.72	3.188		
12,100.0	6,603.5	12,142.6	6,699.4	157.0	156.9	-95.69	318.9	5,532.4	977.9	665.6	312.27	3.132		
12,200.0	6,602.7	12,242.6	6,699.0	159.8	159.7	-95.71	318.9	5,632.4	977.9	660.1	317.83	3.077		
12,300.0	6,601.9	12,342.6	6,698.5	162.6	162.5	-95.73	318.9	5,732.4	978.0	654.6	323.39	3.024		
12,400.0	6,601.1	12,442.6	6,698.1	165.4	165.3	-95.75	318.9	5,832.4	978.0	649.0	328.95	2.973		
12,500.0	6,600.4	12,542.6	6,697.7	168.2	168.1	-95.77	318.9	5,932.4	978.0	643.5	334.50	2.924		
12,600.0	6,599.6	12,642.6	6,697.2	171.0	170.9	-95.79	318.9	6,032.4	978.1	638.0	340.06	2.876		
12,700.0	6,598.8	12,742.6	6,696.8	173.7	173.7	-95.81	318.9	6,132.4	978.1	632.5	345.62	2.830		
12,800.0	6,598.1	12,842.6	6,696.4	176.5	176.5	-95.83	318.9	6,232.4	978.1	626.9	351.18	2.785		
12,900.0	6,597.3	12,942.6	6,695.9	179.3	179.3	-95.85	318.9	6,332.4	978.2	621.4	356.74	2.742		
13,000.0	6,596.5	13,042.6	6,695.5	182.1	182.1	-95.86	318.9	6,432.4	978.2	615.9	362.30	2.700		
13,100.0	6,595.8	13,142.6	6,695.1	184.9	184.9	-95.88	318.9	6,532.4	978.2	610.4	367.86	2.659		
13,200.0	6,595.0	13,242.6	6,694.6	187.7	187.7	-95.90	318.9	6,632.4	978.3	604.8	373.42	2.620		
13,300.0	6,594.2	13,342.6	6,694.2	190.5	190.5	-95.92	318.9	6,732.4	978.3	599.3	378.98	2.581		
13,400.0	6,593.5	13,442.6	6,693.7	193.3	193.3	-95.94	318.9	6,832.4	978.3	593.8	384.54	2.544		
13,500.0	6,592.7	13,542.6	6,693.3	196.1	196.1	-95.96	318.9	6,932.4	978.4	588.3	390.10	2.508		
13,600.0	6,591.9	13,642.6	6,692.9	198.9	198.9	-95.98	318.9	7,032.4	978.4	582.7	395.66	2.473		

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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		
13,700.0	6,591.2	13,742.6	6,692.4	201.7	201.7	-96.00	318.9	7,132.4	978.4	577.2	401.22	2.439		
13,800.0	6,590.4	13,842.6	6,692.0	204.5	204.5	-96.02	318.9	7,232.4	978.5	571.7	406.79	2.405		
13,900.0	6,589.6	13,942.6	6,691.6	207.3	207.3	-96.04	318.9	7,332.4	978.5	566.2	412.35	2.373		
14,000.0	6,588.9	14,042.6	6,691.1	210.1	210.1	-96.06	318.9	7,432.4	978.5	560.6	417.91	2.342		
14,100.0	6,588.1	14,142.6	6,690.7	212.9	212.9	-96.08	318.9	7,532.4	978.6	555.1	423.47	2.311		
14,200.0	6,587.3	14,242.6	6,690.3	215.7	215.7	-96.10	318.9	7,632.3	978.6	549.6	429.03	2.281		
14,300.0	6,586.6	14,342.6	6,689.8	218.5	218.5	-96.12	318.9	7,732.3	978.6	544.0	434.59	2.252		
14,400.0	6,585.8	14,442.6	6,689.4	221.3	221.3	-96.13	318.9	7,832.3	978.7	538.5	440.15	2.223		
14,500.0	6,585.0	14,542.6	6,688.9	224.2	224.1	-96.15	318.9	7,932.3	978.7	533.0	445.71	2.196		
14,600.0	6,584.3	14,642.6	6,688.5	227.0	226.9	-96.17	318.9	8,032.3	978.7	527.5	451.27	2.169		
14,700.0	6,583.5	14,742.6	6,688.1	229.8	229.7	-96.19	318.9	8,132.3	978.8	521.9	456.83	2.143		
14,800.0	6,582.7	14,842.6	6,687.6	232.6	232.5	-96.21	318.9	8,232.3	978.8	516.4	462.39	2.117		
14,900.0	6,581.9	14,942.6	6,687.2	235.4	235.3	-96.23	318.9	8,332.3	978.9	510.9	467.95	2.092		
15,000.0	6,581.2	15,042.6	6,686.8	238.2	238.1	-96.25	318.9	8,432.3	978.9	505.4	473.51	2.067		
15,100.0	6,580.4	15,142.6	6,686.3	241.0	240.9	-96.27	318.9	8,532.3	978.9	499.9	479.07	2.043		
15,200.0	6,579.6	15,242.6	6,685.9	243.8	243.7	-96.29	318.9	8,632.3	979.0	494.3	484.63	2.020		
15,300.0	6,578.9	15,342.6	6,685.5	246.6	246.5	-96.31	318.9	8,732.3	979.0	488.8	490.19	1.997		
15,400.0	6,578.1	15,442.6	6,685.0	249.4	249.3	-96.33	318.9	8,832.3	979.0	483.3	495.75	1.975		
15,500.0	6,577.3	15,542.6	6,684.6	252.2	252.1	-96.35	318.9	8,932.3	979.1	477.8	501.31	1.953		
15,600.0	6,576.6	15,642.6	6,684.1	255.0	254.9	-96.37	318.9	9,032.3	979.1	472.2	506.87	1.932		
15,700.0	6,575.8	15,742.6	6,683.7	257.8	257.7	-96.39	318.9	9,132.3	979.1	466.7	512.43	1.911		
15,800.0	6,575.0	15,842.6	6,683.3	260.6	260.5	-96.40	318.9	9,232.3	979.2	461.2	517.99	1.890		
15,900.0	6,574.3	15,942.6	6,682.8	263.4	263.4	-96.42	318.9	9,332.3	979.2	455.7	523.55	1.870		
16,000.0	6,573.5	16,042.6	6,682.4	266.2	266.2	-96.44	318.9	9,432.3	979.3	450.2	529.10	1.851		
16,100.0	6,572.7	16,142.6	6,682.0	269.0	269.0	-96.46	318.9	9,532.3	979.3	444.6	534.66	1.832		
16,200.0	6,572.0	16,242.6	6,681.5	271.8	271.8	-96.48	318.9	9,632.3	979.3	439.1	540.22	1.813		
16,300.0	6,571.2	16,342.6	6,681.1	274.6	274.6	-96.50	318.9	9,732.3	979.4	433.6	545.78	1.794		
16,307.8	6,571.1	16,350.4	6,681.1	274.8	274.8	-96.50	318.9	9,740.1	979.4	433.2	546.21	1.793		
16,325.7	6,571.0	16,362.7	6,681.0	275.3	275.1	-96.51	318.9	9,752.4	979.4	432.3	547.05	1.790 SF		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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	35.69	12.0	8.6	14.8	14.8	0.00	N/A			
100.0	100.0	99.0	99.0	0.1	0.1	35.69	12.0	8.6	14.8	14.6	0.22	66.191			
200.0	200.0	199.0	199.0	0.3	0.3	35.69	12.0	8.6	14.8	14.1	0.67	22.027			
300.0	300.0	299.0	299.0	0.6	0.6	35.69	12.0	8.6	14.8	13.7	1.12	13.199			
400.0	400.0	399.0	399.0	0.8	0.8	35.69	12.0	8.6	14.8	13.2	1.57	9.422			
500.0	500.0	499.0	499.0	1.0	1.0	35.69	12.0	8.6	14.8	12.8	2.02	7.326			
600.0	600.0	599.0	599.0	1.2	1.2	35.69	12.0	8.6	14.8	12.3	2.47	5.993			
700.0	700.0	699.0	699.0	1.5	1.5	35.69	12.0	8.6	14.8	11.9	2.92	5.070			
800.0	800.0	799.0	799.0	1.7	1.7	35.69	12.0	8.6	14.8	11.4	3.37	4.394			
900.0	900.0	899.0	899.0	1.9	1.9	35.69	12.0	8.6	14.8	11.0	3.82	3.876			
1,000.0	1,000.0	999.0	999.0	2.1	2.1	35.69	12.0	8.6	14.8	10.5	4.27	3.468 CC			
1,100.0	1,100.0	1,099.0	1,099.0	2.3	2.4	-162.43	12.0	8.6	16.0	11.4	4.69	3.421			
1,200.0	1,199.9	1,198.9	1,198.9	2.5	2.6	-165.84	12.0	8.6	19.8	14.7	5.09	3.894			
1,300.0	1,299.7	1,298.7	1,298.7	2.7	2.8	-169.32	12.0	8.6	26.2	20.7	5.50	4.769			
1,400.0	1,399.3	1,398.3	1,398.3	2.9	3.0	-172.06	12.0	8.6	35.2	29.3	5.91	5.968			
1,500.0	1,498.6	1,498.8	1,498.7	3.1	3.2	-174.21	10.9	8.0	45.7	39.4	6.29	7.258			
1,600.0	1,597.5	1,599.5	1,599.4	3.4	3.4	-176.13	7.4	6.2	56.1	49.5	6.66	8.431			
1,699.4	1,695.5	1,700.0	1,699.7	3.7	3.6	-177.90	1.7	3.0	66.6	59.5	7.03	9.473			
1,800.0	1,794.4	1,802.0	1,801.2	4.0	3.8	-179.62	-6.6	-1.4	75.9	68.5	7.43	10.209			
1,900.0	1,892.7	1,903.8	1,902.3	4.3	4.0	-178.62	-17.1	-7.2	82.6	74.8	7.85	10.522			
2,000.0	1,991.1	2,003.9	2,001.5	4.7	4.2	-176.89	-29.0	-13.6	87.8	79.5	8.28	10.604			
2,100.0	2,089.4	2,103.7	2,100.4	5.0	4.5	-175.36	-40.8	-20.0	93.1	84.3	8.72	10.669			
2,200.0	2,187.7	2,203.5	2,199.4	5.4	4.8	-173.99	-52.6	-26.4	98.4	89.2	9.18	10.723			
2,300.0	2,286.1	2,303.4	2,298.3	5.7	5.0	-172.76	-64.4	-32.8	103.7	94.1	9.64	10.765			
2,400.0	2,384.4	2,403.2	2,397.2	6.1	5.3	-171.66	-76.3	-39.2	109.2	99.0	10.11	10.797			
2,500.0	2,482.7	2,503.0	2,496.1	6.5	5.6	-170.65	-88.1	-45.7	114.6	104.0	10.59	10.821			
2,600.0	2,581.0	2,602.9	2,595.0	6.9	5.9	-169.74	-99.9	-52.1	120.1	109.0	11.08	10.839			
2,700.0	2,679.4	2,702.7	2,694.0	7.3	6.2	-168.91	-111.7	-58.5	125.6	114.0	11.57	10.850			
2,800.0	2,777.7	2,802.5	2,792.9	7.7	6.5	-168.15	-123.6	-64.9	131.1	119.0	12.08	10.857			
2,900.0	2,876.0	2,902.4	2,891.8	8.1	6.8	-167.45	-135.4	-71.3	136.7	124.1	12.58	10.860			
3,000.0	2,974.4	3,002.2	2,990.7	8.5	7.1	-166.81	-147.2	-77.7	142.2	129.1	13.10	10.859			
3,100.0	3,072.7	3,102.0	3,089.7	8.9	7.4	-166.21	-159.0	-84.1	147.8	134.2	13.62	10.856			
3,200.0	3,171.0	3,201.9	3,188.6	9.3	7.7	-165.66	-170.9	-90.5	153.4	139.3	14.14	10.850			
3,300.0	3,269.3	3,301.7	3,287.5	9.7	8.1	-165.14	-182.7	-96.9	159.0	144.4	14.67	10.842			
3,400.0	3,367.7	3,401.5	3,386.4	10.1	8.4	-164.66	-194.5	-103.4	164.7	149.5	15.20	10.833			
3,500.0	3,466.0	3,501.4	3,485.3	10.5	8.7	-164.22	-206.3	-109.8	170.3	154.6	15.73	10.823			
3,600.0	3,564.3	3,601.2	3,584.3	10.9	9.0	-163.80	-218.2	-116.2	175.9	159.7	16.27	10.812			
3,700.0	3,662.7	3,701.0	3,683.2	11.3	9.3	-163.41	-230.0	-122.6	181.6	164.8	16.81	10.800			
3,800.0	3,761.0	3,800.9	3,782.1	11.7	9.7	-163.04	-241.8	-129.0	187.3	169.9	17.36	10.788			
3,900.0	3,859.3	3,900.7	3,881.0	12.1	10.0	-162.69	-253.6	-135.4	192.9	175.0	17.91	10.775			
4,000.0	3,957.6	4,000.5	3,980.0	12.5	10.3	-162.36	-265.4	-141.8	198.6	180.2	18.45	10.762			
4,100.0	4,056.0	4,100.4	4,078.9	12.9	10.7	-162.05	-277.3	-148.2	204.3	185.3	19.01	10.749			
4,200.0	4,154.3	4,200.2	4,177.8	13.3	11.0	-161.76	-289.1	-154.6	210.0	190.4	19.56	10.735			
4,300.0	4,252.6	4,300.0	4,276.7	13.7	11.3	-161.48	-300.9	-161.1	215.7	195.6	20.11	10.722			
4,400.0	4,351.0	4,399.9	4,375.6	14.1	11.7	-161.22	-312.7	-167.5	221.4	200.7	20.67	10.709			
4,500.0	4,449.3	4,499.7	4,474.6	14.6	12.0	-160.97	-324.6	-173.9	227.1	205.8	21.23	10.695			
4,600.0	4,547.6	4,599.5	4,573.5	15.0	12.3	-160.73	-336.4	-180.3	232.8	211.0	21.79	10.682			
4,700.0	4,645.9	4,695.4	4,668.6	15.4	12.6	-160.58	-347.3	-186.2	239.0	216.6	22.32	10.705			
4,800.0	4,744.3	4,788.3	4,761.0	15.8	12.8	-160.78	-355.4	-190.6	247.7	224.9	22.78	10.875			
4,834.7	4,778.4	4,820.4	4,793.0	15.9	12.9	-160.93	-357.6	-191.8	251.4	228.5	22.92	10.966			
4,900.0	4,842.7	4,880.7	4,853.1	16.2	13.0	-161.30	-360.9	-193.6	258.5	235.3	23.20	11.144			

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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		
5,000.0	4,941.7	4,972.7	4,945.2	16.4	13.2	161.91	-363.7	-195.1	269.0	245.5	23.55	11.423		
5,100.0	5,041.1	5,067.7	5,040.1	16.6	13.3	162.57	-364.2	-195.4	278.8	254.9	23.87	11.680		
5,200.0	5,140.8	5,167.4	5,139.8	16.8	13.5	163.05	-364.2	-195.4	285.8	261.6	24.18	11.820		
5,300.0	5,240.8	5,267.3	5,239.8	17.0	13.7	163.29	-364.2	-195.4	289.4	264.9	24.47	11.828		
5,359.2	5,300.0	5,326.6	5,299.0	17.1	13.8	-0.07	-364.2	-195.4	290.0	260.0	30.00	9.667		
5,400.0	5,340.8	5,367.3	5,339.8	17.1	13.8	-0.07	-364.2	-195.4	290.0	259.9	30.12	9.627		
5,500.0	5,440.8	5,467.3	5,439.8	17.3	14.0	-0.07	-364.2	-195.4	290.0	259.6	30.41	9.535		
5,600.0	5,540.8	5,567.3	5,539.8	17.4	14.2	-0.07	-364.2	-195.4	290.0	259.3	30.71	9.443		
5,700.0	5,640.8	5,667.3	5,639.8	17.5	14.3	-0.07	-364.2	-195.4	290.0	259.0	31.01	9.352		
5,800.0	5,740.8	5,767.3	5,739.8	17.6	14.5	-0.07	-364.2	-195.4	290.0	258.7	31.31	9.262		
5,869.1	5,809.8	5,836.4	5,808.8	17.7	14.6	-0.06	-364.2	-195.3	290.0	258.5	31.52	9.199		
5,900.0	5,840.8	5,867.3	5,839.7	17.8	14.6	0.12	-364.2	-194.4	290.0	258.4	31.63	9.169		
5,936.8	5,877.6	5,904.0	5,876.3	17.8	14.7	0.65	-364.2	-191.7	290.0	258.2	31.78	9.127		
5,950.0	5,890.8	5,917.0	5,889.2	17.8	14.7	-89.10	-364.2	-190.3	290.0	263.3	26.69	10.867		
6,000.0	5,940.7	5,966.3	5,938.0	17.9	14.8	-88.14	-364.2	-183.1	290.1	263.4	26.75	10.846		
6,050.0	5,990.3	6,015.3	5,985.9	18.0	14.8	-87.20	-364.2	-172.8	290.3	263.5	26.80	10.835		
6,100.0	6,039.5	6,064.0	6,032.8	18.0	14.8	-86.27	-364.2	-159.5	290.6	263.8	26.83	10.832		
6,150.0	6,088.0	6,112.5	6,078.4	18.0	14.9	-85.36	-364.2	-143.4	291.0	264.1	26.86	10.834		
6,200.0	6,135.6	6,160.6	6,122.8	18.1	14.9	-84.48	-364.2	-124.6	291.4	264.5	26.89	10.836		
6,250.0	6,182.1	6,208.5	6,165.6	18.1	14.9	-83.62	-364.2	-103.1	291.8	264.9	26.93	10.834		
6,300.0	6,227.2	6,256.2	6,206.7	18.1	14.9	-82.79	-364.2	-79.1	292.3	265.3	27.01	10.823		
6,350.0	6,270.9	6,303.6	6,246.1	18.1	15.0	-82.00	-364.2	-52.7	292.9	265.7	27.12	10.799		
6,400.0	6,312.9	6,350.0	6,283.0	18.1	15.0	-81.25	-364.2	-24.6	293.4	266.2	27.28	10.756		
6,450.0	6,353.0	6,397.8	6,319.1	18.2	15.0	-80.52	-364.2	6.7	294.0	266.5	27.52	10.685		
6,500.0	6,391.1	6,444.6	6,352.6	18.2	15.0	-79.85	-364.2	39.4	294.6	266.8	27.84	10.584		
6,550.0	6,427.0	6,491.2	6,383.8	18.2	15.1	-79.21	-364.2	74.0	295.2	267.0	28.25	10.449		
6,600.0	6,460.6	6,537.7	6,412.8	18.3	15.1	-78.62	-364.2	110.3	295.8	267.0	28.77	10.281		
6,650.0	6,491.6	6,583.9	6,439.4	18.3	15.3	-78.08	-364.2	148.1	296.4	267.0	29.43	10.070		
6,700.0	6,520.0	6,630.1	6,463.6	18.4	15.6	-77.59	-364.2	187.4	296.9	266.7	30.22	9.826		
6,750.0	6,545.7	6,676.1	6,485.4	18.6	16.1	-77.15	-364.2	228.0	297.5	266.3	31.14	9.552		
6,800.0	6,568.5	6,722.0	6,504.6	18.8	16.7	-76.76	-364.2	269.6	297.9	265.7	32.20	9.251		
6,850.0	6,588.3	6,767.8	6,521.3	19.1	17.4	-76.42	-364.2	312.3	298.3	264.9	33.40	8.932		
6,900.0	6,605.1	6,813.6	6,535.3	19.6	18.2	-76.13	-364.2	355.8	298.7	264.0	34.73	8.600		
6,950.0	6,618.8	6,859.2	6,546.7	20.2	19.0	-75.89	-364.2	400.0	299.0	262.8	36.19	8.262		
7,000.0	6,629.3	6,904.9	6,555.4	20.9	19.8	-75.71	-364.2	444.8	299.2	261.5	37.76	7.925		
7,050.0	6,636.6	6,950.0	6,561.4	21.7	20.7	-75.59	-364.2	489.5	299.4	260.0	39.42	7.596		
7,100.0	6,640.7	6,996.0	6,564.8	22.6	21.6	-75.52	-364.2	535.4	299.5	258.3	41.18	7.273		
7,142.7	6,641.5	7,035.0	6,565.5	23.5	22.4	-75.50	-364.2	574.4	299.5	256.8	42.74	7.008		
7,200.0	6,641.1	7,092.3	6,565.2	24.6	23.7	-75.52	-364.2	631.7	299.5	254.4	45.15	6.634		
7,300.0	6,640.3	7,192.3	6,564.6	26.8	25.9	-75.55	-364.2	731.7	299.5	249.9	49.54	6.045		
7,400.0	6,639.5	7,292.3	6,564.0	29.1	28.3	-75.58	-364.2	831.7	299.4	245.3	54.12	5.532		
7,500.0	6,638.8	7,392.3	6,563.4	31.4	30.7	-75.61	-364.2	931.7	299.4	240.5	58.86	5.086		
7,600.0	6,638.0	7,492.3	6,562.8	33.9	33.2	-75.65	-364.2	1,031.7	299.3	235.6	63.71	4.698		
7,700.0	6,637.2	7,592.3	6,562.2	36.4	35.7	-75.68	-364.2	1,131.6	299.3	230.6	68.66	4.359		
7,800.0	6,636.5	7,692.3	6,561.6	38.9	38.3	-75.71	-364.2	1,231.6	299.2	225.6	73.68	4.061		
7,900.0	6,635.7	7,792.3	6,561.0	41.5	40.9	-75.74	-364.2	1,331.6	299.2	220.4	78.77	3.799		
8,000.0	6,634.9	7,892.3	6,560.4	44.1	43.5	-75.78	-364.2	1,431.6	299.2	215.3	83.90	3.566		
8,100.0	6,634.2	7,992.3	6,559.8	46.7	46.2	-75.81	-364.2	1,531.6	299.1	210.0	89.08	3.358		
8,200.0	6,633.4	8,092.3	6,559.2	49.3	48.9	-75.84	-364.2	1,631.6	299.1	204.8	94.29	3.172		
8,300.0	6,632.6	8,192.3	6,558.7	52.0	51.5	-75.87	-364.2	1,731.6	299.0	199.5	99.53	3.004		
8,400.0	6,631.9	8,292.3	6,558.1	54.7	54.2	-75.91	-364.2	1,831.6	299.0	194.2	104.80	2.853		

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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	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)				
8,500.0	6,631.1	8,392.3	6,557.5	57.3	56.9	-75.94	-364.2	1,931.6	298.9	188.9	110.08	2.716			
8,600.0	6,630.3	8,492.3	6,556.9	60.0	59.7	-75.97	-364.2	2,031.6	298.9	183.5	115.39	2.590			
8,700.0	6,629.6	8,592.3	6,556.3	62.8	62.4	-76.00	-364.2	2,131.6	298.9	178.1	120.72	2.476			
8,800.0	6,628.8	8,692.3	6,555.7	65.5	65.1	-76.04	-364.2	2,231.6	298.8	172.8	126.06	2.371			
8,900.0	6,628.0	8,792.3	6,555.1	68.2	67.9	-76.07	-364.2	2,331.6	298.8	167.4	131.41	2.274			
9,000.0	6,627.3	8,892.3	6,554.5	70.9	70.6	-76.10	-364.2	2,431.6	298.7	162.0	136.77	2.184			
9,100.0	6,626.5	8,992.3	6,553.9	73.7	73.3	-76.13	-364.2	2,531.6	298.7	156.5	142.15	2.101			
9,200.0	6,625.7	9,092.3	6,553.3	76.4	76.1	-76.17	-364.2	2,631.6	298.7	151.1	147.53	2.024			
9,300.0	6,625.0	9,192.3	6,552.7	79.2	78.9	-76.20	-364.2	2,731.6	298.6	145.7	152.93	1.953			
9,400.0	6,624.2	9,292.3	6,552.1	81.9	81.6	-76.23	-364.2	2,831.6	298.6	140.2	158.33	1.886			
9,500.0	6,623.4	9,392.3	6,551.5	84.7	84.4	-76.26	-364.2	2,931.6	298.5	134.8	163.74	1.823			
9,600.0	6,622.6	9,492.3	6,550.9	87.4	87.1	-76.30	-364.2	3,031.6	298.5	129.3	169.16	1.765			
9,700.0	6,621.9	9,592.3	6,550.3	90.2	89.9	-76.33	-364.2	3,131.6	298.4	123.9	174.58	1.710			
9,800.0	6,621.1	9,692.3	6,549.8	92.9	92.7	-76.36	-364.2	3,231.6	298.4	118.4	180.01	1.658			
9,900.0	6,620.3	9,792.3	6,549.2	95.7	95.5	-76.39	-364.2	3,331.6	298.4	112.9	185.44	1.609			
10,000.0	6,619.6	9,892.3	6,548.6	98.5	98.2	-76.43	-364.2	3,431.6	298.3	107.4	190.88	1.563			
10,100.0	6,618.8	9,992.3	6,548.0	101.3	101.0	-76.46	-364.2	3,531.6	298.3	102.0	196.32	1.519			
10,200.0	6,618.0	10,092.3	6,547.4	104.0	103.8	-76.49	-364.2	3,631.6	298.2	96.5	201.77	1.478	Level 3		
10,300.0	6,617.3	10,192.3	6,546.8	106.8	106.6	-76.52	-364.2	3,731.6	298.2	91.0	207.22	1.439	Level 3		
10,400.0	6,616.5	10,292.3	6,546.2	109.6	109.4	-76.56	-364.2	3,831.6	298.2	85.5	212.68	1.402	Level 3		
10,500.0	6,615.7	10,392.3	6,545.6	112.4	112.1	-76.59	-364.2	3,931.6	298.1	80.0	218.14	1.367	Level 3		
10,600.0	6,615.0	10,492.3	6,545.0	115.1	114.9	-76.62	-364.2	4,031.6	298.1	74.5	223.60	1.333	Level 3		
10,700.0	6,614.2	10,592.3	6,544.4	117.9	117.7	-76.65	-364.2	4,131.6	298.0	69.0	229.07	1.301	Level 3		
10,800.0	6,613.4	10,692.3	6,543.8	120.7	120.5	-76.69	-364.2	4,231.6	298.0	63.5	234.54	1.271	Level 3		
10,900.0	6,612.7	10,792.3	6,543.2	123.5	123.3	-76.72	-364.2	4,331.6	298.0	57.9	240.01	1.241	Level 2		
11,000.0	6,611.9	10,892.3	6,542.6	126.3	126.1	-76.75	-364.2	4,431.6	297.9	52.4	245.49	1.214	Level 2		
11,100.0	6,611.1	10,992.3	6,542.0	129.1	128.9	-76.79	-364.2	4,531.6	297.9	46.9	250.97	1.187	Level 2		
11,200.0	6,610.4	11,092.3	6,541.4	131.8	131.7	-76.82	-364.2	4,631.6	297.8	41.4	256.45	1.161	Level 2		
11,300.0	6,609.6	11,192.3	6,540.9	134.6	134.5	-76.85	-364.2	4,731.6	297.8	35.9	261.94	1.137	Level 2		
11,400.0	6,608.8	11,292.3	6,540.3	137.4	137.3	-76.88	-364.2	4,831.6	297.8	30.3	267.43	1.113	Level 2		
11,500.0	6,608.1	11,392.3	6,539.7	140.2	140.0	-76.92	-364.2	4,931.6	297.7	24.8	272.92	1.091	Level 2		
11,600.0	6,607.3	11,492.3	6,539.1	143.0	142.8	-76.95	-364.2	5,031.6	297.7	19.3	278.41	1.069	Level 2		
11,700.0	6,606.5	11,592.3	6,538.5	145.8	145.6	-76.98	-364.2	5,131.6	297.6	13.7	283.90	1.048	Level 2		
11,800.0	6,605.8	11,692.3	6,537.9	148.6	148.4	-77.01	-364.2	5,231.6	297.6	8.2	289.40	1.028	Level 2		
11,900.0	6,605.0	11,792.3	6,537.3	151.4	151.2	-77.05	-364.2	5,331.6	297.6	2.7	294.90	1.009	Level 2		
12,000.0	6,604.2	11,892.3	6,536.7	154.2	154.0	-77.08	-364.2	5,431.6	297.5	-2.9	300.40	0.990	Level 1		
12,100.0	6,603.5	11,992.3	6,536.1	157.0	156.8	-77.11	-364.2	5,531.6	297.5	-8.4	305.91	0.972	Level 1		
12,200.0	6,602.7	12,092.3	6,535.5	159.8	159.6	-77.15	-364.2	5,631.6	297.4	-14.0	311.41	0.955	Level 1		
12,300.0	6,601.9	12,192.3	6,534.9	162.6	162.4	-77.18	-364.2	5,731.6	297.4	-19.5	316.92	0.938	Level 1		
12,400.0	6,601.1	12,292.3	6,534.3	165.4	165.2	-77.21	-364.2	5,831.6	297.4	-25.1	322.43	0.922	Level 1		
12,500.0	6,600.4	12,392.3	6,533.7	168.2	168.0	-77.24	-364.2	5,931.6	297.3	-30.6	327.94	0.907	Level 1		
12,600.0	6,599.6	12,492.3	6,533.1	171.0	170.8	-77.28	-364.2	6,031.6	297.3	-36.2	333.45	0.892	Level 1		
12,700.0	6,598.8	12,592.3	6,532.5	173.7	173.6	-77.31	-364.2	6,131.6	297.3	-41.7	338.97	0.877	Level 1		
12,800.0	6,598.1	12,692.3	6,531.9	176.5	176.4	-77.34	-364.2	6,231.6	297.2	-47.3	344.49	0.863	Level 1		
12,900.0	6,597.3	12,792.3	6,531.4	179.3	179.2	-77.38	-364.2	6,331.5	297.2	-52.8	350.01	0.849	Level 1		
13,000.0	6,596.5	12,892.3	6,530.8	182.1	182.0	-77.41	-364.2	6,431.5	297.1	-58.4	355.53	0.836	Level 1		
13,100.0	6,595.8	12,992.3	6,530.2	184.9	184.8	-77.44	-364.2	6,531.5	297.1	-64.0	361.05	0.823	Level 1		
13,200.0	6,595.0	13,092.3	6,529.6	187.7	187.6	-77.47	-364.2	6,631.5	297.1	-69.5	366.58	0.810	Level 1		
13,300.0	6,594.2	13,192.2	6,529.0	190.5	190.4	-77.51	-364.2	6,731.5	297.0	-75.1	372.10	0.798	Level 1		
13,400.0	6,593.5	13,292.2	6,528.4	193.3	193.2	-77.54	-364.2	6,831.5	297.0	-80.6	377.63	0.786	Level 1		
13,500.0	6,592.7	13,392.2	6,527.8	196.1	196.0	-77.57	-364.2	6,931.5	296.9	-86.2	383.16	0.775	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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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		
13,600.0	6,591.9	13,492.2	6,527.2	198.9	198.8	-77.61	-364.2	7,031.5	296.9	-91.8	388.69	0.764	Level 1	
13,700.0	6,591.2	13,592.2	6,526.6	201.7	201.6	-77.64	-364.2	7,131.5	296.9	-97.3	394.22	0.753	Level 1	
13,800.0	6,590.4	13,692.2	6,526.0	204.5	204.4	-77.67	-364.2	7,231.5	296.8	-102.9	399.76	0.743	Level 1	
13,900.0	6,589.6	13,792.2	6,525.4	207.3	207.2	-77.70	-364.2	7,331.5	296.8	-108.5	405.29	0.732	Level 1	
14,000.0	6,588.9	13,892.2	6,524.8	210.1	210.0	-77.74	-364.2	7,431.5	296.8	-114.1	410.83	0.722	Level 1	
14,100.0	6,588.1	13,992.2	6,524.2	212.9	212.8	-77.77	-364.2	7,531.5	296.7	-119.6	416.37	0.713	Level 1	
14,200.0	6,587.3	14,092.2	6,523.6	215.7	215.6	-77.80	-364.2	7,631.5	296.7	-125.2	421.91	0.703	Level 1	
14,300.0	6,586.6	14,192.2	6,523.0	218.5	218.4	-77.84	-364.2	7,731.5	296.7	-130.8	427.45	0.694	Level 1	
14,400.0	6,585.8	14,292.2	6,522.5	221.3	221.2	-77.87	-364.2	7,831.5	296.6	-136.4	432.99	0.685	Level 1	
14,500.0	6,585.0	14,392.2	6,521.9	224.2	224.0	-77.90	-364.2	7,931.5	296.6	-142.0	438.54	0.676	Level 1	
14,600.0	6,584.3	14,492.2	6,521.3	227.0	226.8	-77.93	-364.2	8,031.5	296.5	-147.5	444.08	0.668	Level 1	
14,700.0	6,583.5	14,592.2	6,520.7	229.8	229.6	-77.97	-364.2	8,131.5	296.5	-153.1	449.63	0.659	Level 1	
14,800.0	6,582.7	14,692.2	6,520.1	232.6	232.5	-78.00	-364.2	8,231.5	296.5	-158.7	455.18	0.651	Level 1	
14,900.0	6,581.9	14,792.2	6,519.5	235.4	235.3	-78.03	-364.2	8,331.5	296.4	-164.3	460.73	0.643	Level 1	
15,000.0	6,581.2	14,892.2	6,518.9	238.2	238.1	-78.07	-364.2	8,431.5	296.4	-169.9	466.28	0.636	Level 1	
15,100.0	6,580.4	14,992.2	6,518.3	241.0	240.9	-78.10	-364.2	8,531.5	296.4	-175.5	471.84	0.628	Level 1	
15,200.0	6,579.6	15,092.2	6,517.7	243.8	243.7	-78.13	-364.2	8,631.5	296.3	-181.1	477.39	0.621	Level 1	
15,300.0	6,578.9	15,192.2	6,517.1	246.6	246.5	-78.17	-364.2	8,731.5	296.3	-186.7	482.95	0.614	Level 1	
15,400.0	6,578.1	15,292.2	6,516.5	249.4	249.3	-78.20	-364.2	8,831.5	296.3	-192.2	488.50	0.606	Level 1	
15,500.0	6,577.3	15,392.2	6,515.9	252.2	252.1	-78.23	-364.2	8,931.5	296.2	-197.8	494.06	0.600	Level 1	
15,600.0	6,576.6	15,492.2	6,515.3	255.0	254.9	-78.26	-364.2	9,031.5	296.2	-203.4	499.62	0.593	Level 1	
15,700.0	6,575.8	15,592.2	6,514.7	257.8	257.7	-78.30	-364.2	9,131.5	296.1	-209.0	505.18	0.586	Level 1	
15,800.0	6,575.0	15,692.2	6,514.1	260.6	260.5	-78.33	-364.2	9,231.5	296.1	-214.6	510.74	0.580	Level 1	
15,900.0	6,574.3	15,792.2	6,513.6	263.4	263.3	-78.36	-364.2	9,331.5	296.1	-220.2	516.31	0.573	Level 1	
16,000.0	6,573.5	15,892.2	6,513.0	266.2	266.1	-78.40	-364.2	9,431.5	296.0	-225.8	521.87	0.567	Level 1	
16,100.0	6,572.7	15,992.2	6,512.4	269.0	268.9	-78.43	-364.2	9,531.5	296.0	-231.4	527.44	0.561	Level 1	
16,200.0	6,572.0	16,092.2	6,511.8	271.8	271.7	-78.46	-364.2	9,631.5	296.0	-237.0	533.00	0.555	Level 1	
16,300.0	6,571.2	16,192.2	6,511.2	274.6	274.5	-78.50	-364.2	9,731.5	295.9	-242.6	538.57	0.549	Level 1	
16,325.7	6,571.0	16,217.9	6,511.0	275.3	275.3	-78.51	-364.2	9,757.2	295.9	-244.1	540.00	0.548	Level 1, ES, SF	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-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 CC		
900.0	900.0	899.6	899.6	1.9	1.9	-146.96	-13.7	-8.9	16.3	12.5	3.79	4.298		
1,000.0	1,000.0	999.1	999.0	2.1	2.1	-151.14	-17.5	-9.6	20.0	15.8	4.20	4.761		
1,100.0	1,100.0	1,098.4	1,098.1	2.3	2.3	8.34	-23.8	-10.9	25.0	20.4	4.58	5.451		
1,200.0	1,199.9	1,197.6	1,196.9	2.5	2.5	5.26	-32.7	-12.6	30.0	25.0	4.95	6.055		
1,300.0	1,299.7	1,296.6	1,295.2	2.7	2.7	2.67	-44.0	-14.8	35.0	29.6	5.33	6.563		
1,400.0	1,399.3	1,395.5	1,393.1	2.9	3.0	0.38	-57.9	-17.5	40.0	34.3	5.72	6.990		
1,500.0	1,498.6	1,494.3	1,490.4	3.1	3.2	-1.70	-74.1	-20.7	45.0	38.9	6.13	7.352		
1,600.0	1,597.5	1,592.9	1,587.2	3.4	3.6	-3.64	-92.9	-24.4	50.1	43.6	6.54	7.658		
1,699.4	1,695.5	1,690.9	1,682.9	3.7	3.9	-5.47	-113.9	-28.5	55.1	48.2	6.97	7.914		
1,800.0	1,794.4	1,791.4	1,780.7	4.0	4.4	-7.15	-136.5	-32.9	60.1	52.6	7.43	8.081		
1,900.0	1,892.7	1,891.3	1,877.9	4.3	4.8	-8.57	-158.9	-37.3	65.0	57.1	7.91	8.222		
2,000.0	1,991.1	1,991.1	1,975.1	4.7	5.2	-9.79	-181.3	-41.7	70.0	61.6	8.39	8.338		
2,100.0	2,089.4	2,091.0	2,072.3	5.0	5.7	-10.85	-203.8	-46.0	75.0	66.1	8.89	8.434		
2,200.0	2,187.7	2,190.9	2,169.5	5.4	6.1	-11.77	-226.2	-50.4	80.0	70.6	9.39	8.514		
2,300.0	2,286.1	2,290.7	2,266.8	5.7	6.6	-12.59	-248.6	-54.8	85.0	75.1	9.91	8.581		
2,400.0	2,384.4	2,390.6	2,364.0	6.1	7.0	-13.31	-271.1	-59.2	90.1	79.6	10.43	8.636		
2,500.0	2,482.7	2,490.5	2,461.2	6.5	7.5	-13.96	-293.5	-63.6	95.1	84.2	10.96	8.681		
2,600.0	2,581.0	2,590.3	2,558.4	6.9	8.0	-14.54	-315.9	-68.0	100.2	88.7	11.49	8.719		
2,700.0	2,679.4	2,690.2	2,655.6	7.3	8.4	-15.06	-338.4	-72.3	105.3	93.3	12.03	8.750		
2,800.0	2,777.7	2,790.1	2,752.8	7.7	8.9	-15.54	-360.8	-76.7	110.4	97.8	12.58	8.776		
2,900.0	2,876.0	2,889.9	2,850.0	8.1	9.4	-15.98	-383.2	-81.1	115.5	102.4	13.13	8.797		
3,000.0	2,974.4	2,989.8	2,947.3	8.5	9.9	-16.37	-405.7	-85.5	120.6	106.9	13.68	8.814		
3,100.0	3,072.7	3,089.7	3,044.5	8.9	10.3	-16.74	-428.1	-89.9	125.7	111.5	14.24	8.829		
3,200.0	3,171.0	3,189.5	3,141.7	9.3	10.8	-17.08	-450.5	-94.3	130.8	116.0	14.80	8.840		
3,300.0	3,269.3	3,289.4	3,238.9	9.7	11.3	-17.39	-473.0	-98.6	135.9	120.6	15.36	8.849		
3,400.0	3,367.7	3,389.3	3,336.1	10.1	11.8	-17.68	-495.4	-103.0	141.1	125.1	15.93	8.857		
3,500.0	3,466.0	3,489.1	3,433.3	10.5	12.3	-17.95	-517.8	-107.4	146.2	129.7	16.50	8.863		
3,600.0	3,564.3	3,589.0	3,530.5	10.9	12.8	-18.20	-540.3	-111.8	151.3	134.3	17.07	8.867		
3,700.0	3,662.7	3,688.9	3,627.8	11.3	13.2	-18.43	-562.7	-116.2	156.5	138.8	17.64	8.871		
3,800.0	3,761.0	3,788.7	3,725.0	11.7	13.7	-18.65	-585.1	-120.6	161.6	143.4	18.21	8.873		
3,900.0	3,859.3	3,888.6	3,822.2	12.1	14.2	-18.86	-607.6	-124.9	166.7	147.9	18.79	8.875		
4,000.0	3,957.6	3,988.5	3,919.4	12.5	14.7	-19.05	-630.0	-129.3	171.9	152.5	19.36	8.876		
4,100.0	4,056.0	4,088.3	4,016.6	12.9	15.2	-19.23	-652.4	-133.7	177.0	157.1	19.94	8.876		
4,200.0	4,154.3	4,188.2	4,113.8	13.3	15.7	-19.40	-674.9	-138.1	182.2	161.6	20.52	8.876		
4,300.0	4,252.6	4,288.1	4,211.1	13.7	16.2	-19.57	-697.3	-142.5	187.3	166.2	21.10	8.875		
4,400.0	4,351.0	4,387.9	4,308.3	14.1	16.6	-19.72	-719.7	-146.9	192.5	170.8	21.69	8.874		
4,500.0	4,449.3	4,487.8	4,405.5	14.6	17.1	-19.87	-742.2	-151.2	197.6	175.3	22.27	8.873		
4,600.0	4,547.6	4,587.6	4,502.7	15.0	17.6	-20.00	-764.6	-155.6	202.7	179.9	22.85	8.872		
4,700.0	4,645.9	4,687.5	4,599.9	15.4	18.1	-20.14	-787.0	-160.0	207.9	184.5	23.44	8.870		
4,800.0	4,744.3	4,787.4	4,697.1	15.8	18.6	-20.26	-809.5	-164.4	213.0	189.0	24.02	8.868		
4,834.7	4,778.4	4,822.0	4,730.8	15.9	18.8	-20.30	-817.2	-165.9	214.8	190.6	24.23	8.867		
4,900.0	4,842.7	4,887.2	4,794.3	16.2	19.1	-20.34	-831.9	-168.8	218.9	194.3	24.59	8.903		

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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			
5,000.0	4,941.7	4,986.8	4,891.3	16.4	19.6	-20.16	-854.3	-173.2	227.8	202.8	25.05	9.094			
5,100.0	5,041.1	5,086.0	4,987.8	16.6	20.1	-19.74	-876.5	-177.5	240.0	214.6	25.44	9.433			
5,200.0	5,140.8	5,188.6	5,087.8	16.8	20.5	-19.11	-899.3	-181.9	255.2	229.4	25.76	9.904			
5,300.0	5,240.8	5,297.1	5,194.2	17.0	20.9	-18.43	-920.0	-186.0	270.6	244.6	26.01	10.406			
5,359.2	5,300.0	5,361.7	5,257.8	17.1	21.0	178.56	-930.5	-188.1	279.6	242.2	37.41	7.474			
5,400.0	5,340.8	5,406.3	5,302.0	17.1	21.2	178.85	-936.9	-189.3	285.5	247.8	37.61	7.589			
5,500.0	5,440.8	5,516.5	5,411.4	17.3	21.4	179.39	-949.9	-191.8	297.2	259.1	38.04	7.813			
5,600.0	5,540.8	5,627.7	5,522.2	17.4	21.6	179.73	-958.8	-193.6	305.2	266.8	38.41	7.946			
5,700.0	5,640.8	5,739.3	5,633.7	17.5	21.8	179.91	-963.5	-194.5	309.3	270.6	38.72	7.990			
5,800.0	5,740.8	5,846.3	5,740.8	17.6	21.9	179.93	-964.2	-194.6	310.0	271.0	38.99	7.952			
5,900.0	5,840.8	5,946.3	5,840.8	17.8	22.0	179.93	-964.2	-194.6	310.0	270.8	39.23	7.903			
5,936.8	5,877.6	5,983.2	5,877.6	17.8	22.1	179.93	-964.2	-194.6	310.0	270.7	39.32	7.885			
5,950.0	5,890.8	5,996.3	5,890.8	17.8	22.1	89.95	-964.2	-194.6	310.0	281.9	28.14	11.015			
5,960.4	5,901.1	6,006.7	5,901.1	17.8	22.1	90.00	-964.2	-194.6	310.0	281.8	28.17	11.004			
6,000.0	5,940.7	6,046.3	5,940.7	17.9	22.1	90.41	-964.2	-194.6	310.0	281.8	28.25	10.974			
6,050.0	5,990.3	6,096.3	5,990.7	18.0	22.2	91.34	-964.2	-193.9	310.1	281.8	28.29	10.963			
6,100.0	6,039.5	6,146.6	6,040.9	18.0	22.2	92.30	-964.2	-190.1	310.3	282.0	28.31	10.961			
6,150.0	6,088.0	6,197.4	6,091.1	18.0	22.3	93.25	-964.2	-182.9	310.5	282.2	28.32	10.967			
6,200.0	6,135.6	6,248.5	6,141.1	18.1	22.3	94.19	-964.2	-172.3	310.9	282.5	28.32	10.976			
6,250.0	6,182.1	6,299.9	6,190.6	18.1	22.4	95.11	-964.2	-158.2	311.3	282.9	28.33	10.987			
6,300.0	6,227.2	6,351.7	6,239.3	18.1	22.4	96.01	-964.2	-140.8	311.7	283.4	28.36	10.994			
6,350.0	6,270.9	6,403.9	6,287.1	18.1	22.4	96.88	-964.2	-119.9	312.3	283.9	28.41	10.993			
6,400.0	6,312.9	6,456.4	6,333.7	18.1	22.4	97.73	-964.2	-95.6	312.9	284.4	28.50	10.979			
6,450.0	6,353.0	6,509.3	6,378.8	18.2	22.4	98.54	-964.2	-68.0	313.5	284.9	28.64	10.946			
6,500.0	6,391.1	6,562.5	6,422.1	18.2	22.5	99.31	-964.2	-37.1	314.2	285.3	28.86	10.888			
6,550.0	6,427.0	6,616.1	6,463.5	18.2	22.5	100.04	-964.2	-3.1	314.9	285.7	29.16	10.798			
6,600.0	6,460.6	6,670.0	6,502.5	18.3	22.5	100.72	-964.2	34.0	315.6	286.0	29.55	10.678			
6,650.0	6,491.6	6,724.1	6,539.1	18.3	22.6	101.36	-964.2	73.9	316.2	286.2	30.08	10.512			
6,700.0	6,520.0	6,778.6	6,572.9	18.4	22.6	101.94	-964.2	116.6	316.9	286.2	30.75	10.307			
6,750.0	6,545.7	6,833.3	6,603.7	18.6	22.7	102.47	-964.2	161.8	317.5	286.0	31.56	10.061			
6,800.0	6,568.5	6,888.3	6,631.4	18.8	22.9	102.94	-964.2	209.3	318.1	285.6	32.53	9.779			
6,850.0	6,588.3	6,943.5	6,655.6	19.1	23.0	103.35	-964.2	258.9	318.6	285.0	33.66	9.466			
6,900.0	6,605.1	6,998.8	6,676.2	19.6	23.3	103.70	-964.2	310.2	319.1	284.2	34.95	9.130			
6,950.0	6,618.8	7,054.4	6,693.2	20.2	23.6	103.98	-964.2	363.1	319.5	283.1	36.40	8.777			
7,000.0	6,629.3	7,110.0	6,706.2	20.9	24.0	104.20	-964.2	417.2	319.8	281.8	38.00	8.417			
7,050.0	6,636.6	7,165.8	6,715.3	21.7	24.6	104.35	-964.2	472.2	320.0	280.3	39.72	8.057			
7,100.0	6,640.7	7,221.6	6,720.4	22.6	25.3	104.44	-964.2	527.8	320.1	278.6	41.55	7.705			
7,142.7	6,641.5	7,268.9	6,721.5	23.5	25.9	104.46	-964.2	575.1	320.2	277.0	43.18	7.415			
7,200.0	6,641.1	7,326.2	6,721.3	24.6	26.9	104.51	-964.2	632.4	320.2	274.7	45.54	7.032			
7,300.0	6,640.3	7,426.2	6,721.0	26.8	28.7	104.58	-964.2	732.4	320.3	270.5	49.84	6.428			
7,400.0	6,639.5	7,526.2	6,720.6	29.1	30.7	104.66	-964.2	832.4	320.5	266.1	54.34	5.897			
7,500.0	6,638.8	7,626.2	6,720.3	31.4	32.9	104.73	-964.2	932.4	320.6	261.6	58.99	5.434			
7,600.0	6,638.0	7,726.2	6,720.0	33.9	35.2	104.81	-964.2	1,032.4	320.7	256.9	63.77	5.029			
7,700.0	6,637.2	7,826.2	6,719.6	36.4	37.6	104.89	-964.2	1,132.4	320.8	252.2	68.63	4.674			
7,800.0	6,636.5	7,926.2	6,719.3	38.9	40.0	104.96	-964.2	1,232.4	320.9	247.3	73.58	4.361			
7,900.0	6,635.7	8,026.2	6,719.0	41.5	42.5	105.04	-964.2	1,332.4	321.0	242.4	78.58	4.085			
8,000.0	6,634.9	8,126.2	6,718.6	44.1	45.0	105.11	-964.2	1,432.4	321.1	237.5	83.63	3.840			
8,100.0	6,634.2	8,226.2	6,718.3	46.7	47.6	105.19	-964.2	1,532.4	321.2	232.5	88.72	3.621			
8,200.0	6,633.4	8,326.2	6,718.0	49.3	50.2	105.26	-964.2	1,632.4	321.4	227.5	93.85	3.424			
8,300.0	6,632.6	8,426.2	6,717.7	52.0	52.8	105.34	-964.2	1,732.4	321.5	222.5	99.00	3.247			
8,400.0	6,631.9	8,526.2	6,717.3	54.7	55.4	105.41	-964.2	1,832.4	321.6	217.4	104.17	3.087			

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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-402 - 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					
8,500.0	6,631.1	8,626.2	6,717.0	57.3	58.1	105.49	-964.2	1,932.3	321.7	212.3	109.36	2.942					
8,600.0	6,630.3	8,726.2	6,716.7	60.0	60.8	105.56	-964.2	2,032.3	321.8	207.3	114.57	2.809					
8,700.0	6,629.6	8,826.2	6,716.3	62.8	63.4	105.64	-964.2	2,132.3	321.9	202.1	119.78	2.688					
8,800.0	6,628.8	8,926.2	6,716.0	65.5	66.1	105.71	-964.2	2,232.3	322.1	197.0	125.01	2.576					
8,900.0	6,628.0	9,026.2	6,715.7	68.2	68.8	105.79	-964.2	2,332.3	322.2	191.9	130.25	2.473					
9,000.0	6,627.3	9,126.2	6,715.3	70.9	71.5	105.86	-964.2	2,432.3	322.3	186.8	135.50	2.379					
9,100.0	6,626.5	9,226.2	6,715.0	73.7	74.2	105.93	-964.2	2,532.3	322.4	181.7	140.75	2.291					
9,200.0	6,625.7	9,326.2	6,714.7	76.4	77.0	106.01	-964.2	2,632.3	322.5	176.5	146.01	2.209					
9,300.0	6,625.0	9,426.2	6,714.3	79.2	79.7	106.08	-964.2	2,732.3	322.6	171.4	151.27	2.133					
9,400.0	6,624.2	9,526.2	6,714.0	81.9	82.4	106.16	-964.2	2,832.3	322.8	166.2	156.53	2.062					
9,500.0	6,623.4	9,626.2	6,713.7	84.7	85.2	106.23	-964.2	2,932.3	322.9	161.1	161.80	1.996					
9,600.0	6,622.6	9,726.2	6,713.3	87.4	87.9	106.31	-964.2	3,032.3	323.0	155.9	167.07	1.933					
9,700.0	6,621.9	9,826.2	6,713.0	90.2	90.7	106.38	-964.2	3,132.3	323.1	150.8	172.34	1.875					
9,800.0	6,621.1	9,926.2	6,712.7	92.9	93.4	106.45	-964.2	3,232.3	323.3	145.7	177.61	1.820					
9,900.0	6,620.3	10,026.2	6,712.3	95.7	96.2	106.53	-964.2	3,332.3	323.4	140.5	182.88	1.768					
10,000.0	6,619.6	10,126.2	6,712.0	98.5	98.9	106.60	-964.2	3,432.3	323.5	135.4	188.15	1.719					
10,100.0	6,618.8	10,226.2	6,711.7	101.3	101.7	106.68	-964.2	3,532.3	323.6	130.2	193.42	1.673					
10,200.0	6,618.0	10,326.2	6,711.4	104.0	104.4	106.75	-964.2	3,632.3	323.8	125.1	198.69	1.629					
10,300.0	6,617.3	10,426.2	6,711.0	106.8	107.2	106.82	-964.2	3,732.3	323.9	119.9	203.96	1.588					
10,400.0	6,616.5	10,526.2	6,710.7	109.6	110.0	106.90	-964.2	3,832.3	324.0	114.8	209.23	1.549					
10,500.0	6,615.7	10,626.2	6,710.4	112.4	112.8	106.97	-964.2	3,932.3	324.1	109.6	214.50	1.511					
10,600.0	6,615.0	10,726.2	6,710.0	115.1	115.5	107.05	-964.2	4,032.3	324.3	104.5	219.76	1.476	Level 3				
10,700.0	6,614.2	10,826.2	6,709.7	117.9	118.3	107.12	-964.2	4,132.3	324.4	99.4	225.02	1.442	Level 3				
10,800.0	6,613.4	10,926.2	6,709.4	120.7	121.1	107.19	-964.2	4,232.3	324.5	94.2	230.29	1.409	Level 3				
10,900.0	6,612.7	11,026.2	6,709.0	123.5	123.9	107.27	-964.2	4,332.3	324.7	89.1	235.54	1.378	Level 3				
11,000.0	6,611.9	11,126.2	6,708.7	126.3	126.6	107.34	-964.2	4,432.3	324.8	84.0	240.80	1.349	Level 3				
11,100.0	6,611.1	11,226.2	6,708.4	129.1	129.4	107.41	-964.2	4,532.3	324.9	78.9	246.05	1.320	Level 3				
11,200.0	6,610.4	11,326.2	6,708.0	131.8	132.2	107.49	-964.2	4,632.3	325.0	73.7	251.30	1.293	Level 3				
11,300.0	6,609.6	11,426.2	6,707.7	134.6	135.0	107.56	-964.2	4,732.3	325.2	68.6	256.55	1.267	Level 3				
11,400.0	6,608.8	11,526.2	6,707.4	137.4	137.8	107.63	-964.2	4,832.3	325.3	63.5	261.80	1.243	Level 2				
11,500.0	6,608.1	11,626.2	6,707.0	140.2	140.5	107.71	-964.2	4,932.3	325.4	58.4	267.04	1.219	Level 2				
11,600.0	6,607.3	11,726.2	6,706.7	143.0	143.3	107.78	-964.2	5,032.3	325.6	53.3	272.28	1.196	Level 2				
11,700.0	6,606.5	11,826.2	6,706.4	145.8	146.1	107.85	-964.2	5,132.3	325.7	48.2	277.52	1.174	Level 2				
11,800.0	6,605.8	11,926.2	6,706.0	148.6	148.9	107.93	-964.2	5,232.3	325.8	43.1	282.75	1.152	Level 2				
11,900.0	6,605.0	12,026.2	6,705.7	151.4	151.7	108.00	-964.2	5,332.3	326.0	38.0	287.98	1.132	Level 2				
12,000.0	6,604.2	12,126.2	6,705.4	154.2	154.5	108.07	-964.2	5,432.3	326.1	32.9	293.21	1.112	Level 2				
12,100.0	6,603.5	12,226.2	6,705.1	157.0	157.3	108.15	-964.2	5,532.3	326.2	27.8	298.43	1.093	Level 2				
12,200.0	6,602.7	12,326.2	6,704.7	159.8	160.1	108.22	-964.2	5,632.3	326.4	22.7	303.65	1.075	Level 2				
12,300.0	6,601.9	12,426.2	6,704.4	162.6	162.8	108.29	-964.2	5,732.3	326.5	17.7	308.86	1.057	Level 2				
12,400.0	6,601.1	12,526.2	6,704.1	165.4	165.6	108.36	-964.2	5,832.3	326.7	12.6	314.08	1.040	Level 2				
12,500.0	6,600.4	12,626.2	6,703.7	168.2	168.4	108.44	-964.2	5,932.3	326.8	7.5	319.28	1.024	Level 2				
12,600.0	6,599.6	12,726.2	6,703.4	171.0	171.2	108.51	-964.2	6,032.3	326.9	2.4	324.49	1.008	Level 2				
12,700.0	6,598.8	12,826.2	6,703.1	173.7	174.0	108.58	-964.2	6,132.3	327.1	-2.6	329.69	0.992	Level 1				
12,800.0	6,598.1	12,926.2	6,702.7	176.5	176.8	108.65	-964.2	6,232.3	327.2	-7.7	334.89	0.977	Level 1				
12,900.0	6,597.3	13,026.2	6,702.4	179.3	179.6	108.73	-964.2	6,332.3	327.4	-12.7	340.08	0.963	Level 1				
13,000.0	6,596.5	13,126.2	6,702.1	182.1	182.4	108.80	-964.2	6,432.3	327.5	-17.8	345.27	0.949	Level 1				
13,100.0	6,595.8	13,226.2	6,701.7	184.9	185.2	108.87	-964.2	6,532.3	327.6	-22.8	350.45	0.935	Level 1				
13,200.0	6,595.0	13,326.2	6,701.4	187.7	188.0	108.94	-964.2	6,632.3	327.8	-27.9	355.63	0.922	Level 1				
13,300.0	6,594.2	13,426.2	6,701.1	190.5	190.8	109.01	-964.2	6,732.3	327.9	-32.9	360.81	0.909	Level 1				
13,400.0	6,593.5	13,526.2	6,700.7	193.3	193.6	109.09	-964.2	6,832.3	328.1	-37.9	365.98	0.896	Level 1				
13,500.0	6,592.7	13,626.1	6,700.4	196.1	196.4	109.16	-964.2	6,932.3	328.2	-43.0	371.15	0.884	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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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-402 - 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	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)				
13,600.0	6,591.9	13,726.1	6,700.1	198.9	199.2	109.23	-964.2	7,032.3	328.3	-48.0	376.32	0.873	Level 1		
13,700.0	6,591.2	13,826.1	6,699.7	201.7	202.0	109.30	-964.2	7,132.3	328.5	-53.0	381.48	0.861	Level 1		
13,800.0	6,590.4	13,926.1	6,699.4	204.5	204.8	109.37	-964.2	7,232.3	328.6	-58.0	386.63	0.850	Level 1		
13,900.0	6,589.6	14,026.1	6,699.1	207.3	207.6	109.45	-964.2	7,332.3	328.8	-63.0	391.78	0.839	Level 1		
14,000.0	6,588.9	14,126.1	6,698.8	210.1	210.4	109.52	-964.2	7,432.3	328.9	-68.0	396.93	0.829	Level 1		
14,100.0	6,588.1	14,226.1	6,698.4	212.9	213.2	109.59	-964.2	7,532.3	329.1	-73.0	402.07	0.818	Level 1		
14,200.0	6,587.3	14,326.1	6,698.1	215.7	216.0	109.66	-964.2	7,632.3	329.2	-78.0	407.21	0.808	Level 1		
14,300.0	6,586.6	14,426.1	6,697.8	218.5	218.8	109.73	-964.2	7,732.3	329.4	-83.0	412.34	0.799	Level 1		
14,400.0	6,585.8	14,526.1	6,697.4	221.3	221.6	109.80	-964.2	7,832.3	329.5	-88.0	417.47	0.789	Level 1		
14,500.0	6,585.0	14,626.1	6,697.1	224.2	224.4	109.88	-964.2	7,932.3	329.7	-92.9	422.60	0.780	Level 1		
14,600.0	6,584.3	14,726.1	6,696.8	227.0	227.2	109.95	-964.2	8,032.3	329.8	-97.9	427.72	0.771	Level 1		
14,700.0	6,583.5	14,826.1	6,696.4	229.8	230.0	110.02	-964.2	8,132.3	330.0	-102.9	432.84	0.762	Level 1		
14,800.0	6,582.7	14,926.1	6,696.1	232.6	232.8	110.09	-964.2	8,232.3	330.1	-107.8	437.95	0.754	Level 1		
14,900.0	6,581.9	15,026.1	6,695.8	235.4	235.6	110.16	-964.2	8,332.3	330.3	-112.8	443.05	0.745	Level 1		
15,000.0	6,581.2	15,126.1	6,695.4	238.2	238.4	110.23	-964.2	8,432.3	330.4	-117.7	448.16	0.737	Level 1		
15,100.0	6,580.4	15,226.1	6,695.1	241.0	241.2	110.30	-964.2	8,532.3	330.6	-122.7	453.25	0.729	Level 1		
15,200.0	6,579.6	15,326.1	6,694.8	243.8	244.0	110.37	-964.2	8,632.2	330.7	-127.6	458.35	0.722	Level 1		
15,300.0	6,578.9	15,426.1	6,694.4	246.6	246.8	110.44	-964.2	8,732.2	330.9	-132.6	463.43	0.714	Level 1		
15,400.0	6,578.1	15,526.1	6,694.1	249.4	249.6	110.51	-964.2	8,832.2	331.0	-137.5	468.52	0.707	Level 1		
15,500.0	6,577.3	15,626.1	6,693.8	252.2	252.4	110.59	-964.2	8,932.2	331.2	-142.4	473.60	0.699	Level 1		
15,600.0	6,576.6	15,726.1	6,693.4	255.0	255.2	110.66	-964.2	9,032.2	331.3	-147.3	478.67	0.692	Level 1		
15,700.0	6,575.8	15,826.1	6,693.1	257.8	258.0	110.73	-964.2	9,132.2	331.5	-152.3	483.74	0.685	Level 1		
15,800.0	6,575.0	15,926.1	6,692.8	260.6	260.8	110.80	-964.2	9,232.2	331.6	-157.2	488.80	0.678	Level 1		
15,900.0	6,574.3	16,026.1	6,692.5	263.4	263.6	110.87	-964.2	9,332.2	331.8	-162.1	493.86	0.672	Level 1		
16,000.0	6,573.5	16,126.1	6,692.1	266.2	266.4	110.94	-964.2	9,432.2	331.9	-167.0	498.92	0.665	Level 1		
16,100.0	6,572.7	16,226.1	6,691.8	269.0	269.2	111.01	-964.2	9,532.2	332.1	-171.9	503.97	0.659	Level 1		
16,200.0	6,572.0	16,326.1	6,691.5	271.8	272.0	111.08	-964.2	9,632.2	332.3	-176.8	509.01	0.653	Level 1		
16,300.0	6,571.2	16,426.1	6,691.1	274.6	274.8	111.15	-964.2	9,732.2	332.4	-181.6	514.05	0.647	Level 1		
16,325.7	6,571.0	16,451.8	6,691.0	275.3	275.5	111.17	-964.2	9,757.9	332.5	-182.9	515.35	0.645	Level 1, ES, SF		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7,500.0	6,638.8	6,610.8	6,610.8	31.4	132.2	-90.68	-128.9	1,739.2	962.9	799.9	163.01	5.907	2.857 CC, ES, SF	
7,600.0	6,638.0	6,610.0	6,610.0	33.9	132.2	-90.59	-128.9	1,739.2	880.8	715.3	165.48	5.323		
7,700.0	6,637.2	6,609.2	6,609.2	36.4	132.2	-90.51	-128.9	1,739.2	802.8	634.8	167.99	4.779		
7,800.0	6,636.5	6,608.5	6,608.5	38.9	132.2	-90.42	-128.9	1,739.2	730.1	559.6	170.54	4.281		
7,900.0	6,635.7	6,607.7	6,607.7	41.5	132.2	-90.34	-128.9	1,739.2	664.5	491.4	173.12	3.839		
8,000.0	6,634.9	6,606.9	6,606.9	44.1	132.1	-90.26	-128.9	1,739.2	608.4	432.7	175.73	3.462		
8,100.0	6,634.2	6,606.2	6,606.2	46.7	132.1	-90.17	-128.9	1,739.2	564.6	386.3	178.36	3.166		
8,200.0	6,633.4	6,605.4	6,605.4	49.3	132.1	-90.09	-128.9	1,739.2	536.1	355.1	181.01	2.962		
8,300.0	6,632.6	6,604.6	6,604.6	52.0	132.1	-90.01	-128.9	1,739.2	525.3	341.7	183.67	2.860		
8,307.1	6,632.6	6,604.6	6,604.6	52.2	132.1	-90.00	-128.9	1,739.2	525.3	341.4	183.86			
8,400.0	6,631.9	6,603.9	6,603.9	54.7	132.1	-89.92	-128.9	1,739.2	533.4	347.1	186.35	2.863		
8,500.0	6,631.1	6,603.1	6,603.1	57.3	132.1	-89.84	-128.9	1,739.2	559.6	370.5	189.03	2.960		
8,600.0	6,630.3	6,602.3	6,602.3	60.0	132.0	-89.75	-128.9	1,739.2	601.4	409.7	191.73	3.137		
8,700.0	6,629.6	6,601.6	6,601.6	62.8	132.0	-89.67	-128.9	1,739.2	656.0	461.5	194.43	3.374		
8,800.0	6,628.8	6,600.8	6,600.8	65.5	132.0	-89.59	-128.9	1,739.2	720.3	523.2	197.14	3.654		
8,900.0	6,628.0	6,600.0	6,600.0	68.2	132.0	-89.50	-128.9	1,739.2	792.1	592.3	199.86	3.963		
9,000.0	6,627.3	6,599.3	6,599.3	70.9	132.0	-89.42	-128.9	1,739.2	869.5	666.9	202.58	4.292		
9,100.0	6,626.5	6,598.5	6,598.5	73.7	132.0	-89.34	-128.9	1,739.2	951.1	745.8	205.31	4.633		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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	107.02	-127.2	415.4	435.1					
100.0	100.0	76.5	76.5	0.1	0.1	107.02	-127.2	415.4	434.4	434.2	0.21	2,030.015		
200.0	200.0	176.9	176.9	0.3	0.3	107.04	-127.2	415.2	434.2	433.6	0.67	644.769		
300.0	300.0	277.0	277.0	0.6	0.6	107.05	-127.3	414.9	434.0	432.8	1.16	373.335		
400.0	400.0	377.1	377.1	0.8	0.9	107.07	-127.3	414.7	433.8	432.1	1.65	262.647		
500.0	500.0	477.0	477.0	1.0	1.1	107.09	-127.4	414.4	433.5	431.4	2.14	202.671		
600.0	600.0	577.0	577.0	1.2	1.4	107.12	-127.6	414.1	433.3	430.6	2.63	164.988		
700.0	700.0	676.9	676.9	1.5	1.7	107.15	-127.7	413.8	433.1	429.9	3.11	139.144		
800.0	800.0	776.8	776.8	1.7	1.9	107.19	-127.9	413.5	432.9	429.3	3.59	120.430		
900.0	900.0	876.5	876.5	1.9	2.2	107.24	-128.2	413.3	432.7	428.6	4.07	106.395		
1,000.0	1,000.0	976.5	976.5	2.1	2.4	107.28	-128.5	413.1	432.6	428.1	4.54	95.338		
1,100.0	1,100.0	1,076.7	1,076.7	2.3	2.7	-89.44	-128.8	412.8	432.4	427.5	4.99	86.719		
1,200.0	1,199.9	1,176.6	1,176.6	2.5	2.9	-89.92	-129.1	412.6	432.3	426.8	5.42	79.745		
1,300.0	1,299.7	1,276.7	1,276.7	2.7	3.2	-90.74	-129.4	412.3	432.1	426.2	5.87	73.607		
1,368.1	1,367.5	1,344.6	1,344.6	2.8	3.4	-91.50	-129.5	412.1	432.1	425.9	6.19	69.827 CC		
1,400.0	1,399.3	1,376.4	1,376.4	2.9	3.4	-91.92	-129.6	412.0	432.1	425.7	6.34	68.189		
1,500.0	1,498.6	1,476.4	1,476.4	3.1	3.7	-93.47	-129.6	411.7	432.3	425.5	6.78	63.737 ES		
1,600.0	1,597.5	1,576.7	1,576.7	3.4	3.8	-95.41	-129.0	411.2	432.9	425.6	7.20	60.097		
1,699.4	1,695.5	1,676.8	1,676.8	3.7	4.0	-97.72	-128.2	410.4	433.8	426.2	7.65	56.713		
1,800.0	1,794.4	1,776.8	1,776.8	4.0	4.2	-100.21	-127.1	409.1	435.4	427.2	8.15	53.444		
1,900.0	1,892.7	1,877.2	1,877.2	4.3	4.4	-102.70	-125.9	407.6	437.3	428.7	8.67	50.430		
2,000.0	1,991.1	1,976.6	1,976.6	4.7	4.6	-105.13	-124.7	405.6	439.7	430.5	9.22	47.673		
2,100.0	2,089.4	2,077.3	2,077.2	5.0	4.9	-107.51	-123.9	403.2	442.5	432.7	9.80	45.149		
2,200.0	2,187.7	2,176.2	2,176.1	5.4	5.1	-109.72	-124.0	400.5	445.6	435.2	10.39	42.876		
2,300.0	2,286.1	2,274.1	2,273.9	5.7	5.4	-111.83	-124.4	397.8	449.4	438.4	10.99	40.906		
2,400.0	2,384.4	2,371.7	2,371.5	6.1	5.6	-113.87	-125.0	395.4	454.0	442.4	11.58	39.215		
2,500.0	2,482.7	2,470.1	2,469.9	6.5	5.9	-115.87	-125.7	393.1	459.3	447.2	12.17	37.752		
2,600.0	2,581.0	2,569.0	2,568.7	6.9	6.1	-117.83	-126.5	390.8	465.2	452.4	12.75	36.475		
2,700.0	2,679.4	2,667.8	2,667.5	7.3	6.4	-119.72	-127.3	388.4	471.5	458.1	13.33	35.361		
2,800.0	2,777.7	2,765.5	2,765.2	7.7	6.7	-121.55	-128.1	386.0	478.3	464.4	13.91	34.396		
2,900.0	2,876.0	2,863.6	2,863.3	8.1	6.9	-123.34	-128.8	383.9	485.9	471.4	14.47	33.568		
3,000.0	2,974.4	2,962.2	2,961.8	8.5	7.2	-125.07	-129.6	381.7	493.9	478.9	15.04	32.846		
3,100.0	3,072.7	3,058.1	3,057.7	8.9	7.4	-126.72	-130.2	379.7	502.5	486.9	15.59	32.241		
3,200.0	3,171.0	3,154.7	3,154.3	9.3	7.7	-128.37	-130.2	378.2	512.2	496.1	16.13	31.759		
3,300.0	3,269.3	3,252.9	3,252.4	9.7	7.9	-129.96	-130.3	376.7	522.4	505.8	16.66	31.354		
3,400.0	3,367.7	3,351.8	3,351.4	10.1	8.2	-131.40	-131.3	375.7	533.1	515.9	17.18	31.029		
3,500.0	3,466.0	3,450.8	3,450.3	10.5	8.4	-132.70	-133.1	374.9	543.8	526.2	17.67	30.769		
3,600.0	3,564.3	3,549.6	3,549.1	10.9	8.6	-133.93	-135.0	374.2	554.9	536.7	18.16	30.558		
3,700.0	3,662.7	3,648.7	3,648.2	11.3	8.8	-135.11	-137.0	373.4	566.1	547.5	18.64	30.367		
3,800.0	3,761.0	3,746.6	3,746.0	11.7	9.0	-136.23	-139.0	372.7	577.6	558.5	19.12	30.203		
3,900.0	3,859.3	3,841.4	3,840.8	12.1	9.2	-137.29	-140.6	372.1	589.6	570.0	19.59	30.098		
4,000.0	3,957.6	3,934.8	3,934.2	12.5	9.4	-138.35	-141.2	372.0	602.8	582.7	20.01	30.117		
4,100.0	4,056.0	4,030.1	4,029.5	12.9	9.5	-139.45	-141.0	372.0	616.7	596.4	20.37	30.272		
4,200.0	4,154.3	4,125.9	4,125.3	13.3	9.5	-140.58	-139.8	372.0	631.4	610.7	20.70	30.503		
4,300.0	4,252.6	4,224.1	4,223.5	13.7	9.6	-141.71	-138.3	371.9	646.5	625.4	21.04	30.725		
4,400.0	4,351.0	4,321.8	4,321.2	14.1	9.7	-142.79	-136.9	371.8	661.8	640.4	21.38	30.957		
4,500.0	4,449.3	4,419.1	4,418.5	14.6	9.8	-143.67	-136.6	372.8	677.4	655.7	21.69	31.234		
4,600.0	4,547.6	4,519.4	4,518.8	15.0	9.8	-144.42	-137.6	374.7	693.1	671.1	21.99	31.514		
4,700.0	4,645.9	4,623.0	4,622.4	15.4	9.9	-145.08	-139.6	376.7	708.4	686.1	22.34	31.709		
4,800.0	4,744.3	4,727.6	4,726.9	15.8	10.0	-145.64	-143.1	378.8	722.9	700.2	22.73	31.805		
4,834.7	4,778.4	4,762.9	4,762.2	15.9	10.1	-145.82	-144.4	379.4	727.8	705.0	22.87	31.823		

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 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
4,900.0	4,842.7	4,829.1	4,828.2	16.2	10.2	-146.22	-146.7	380.4	736.3	713.2	23.14	31.824			
5,000.0	4,941.7	4,930.8	4,930.0	16.4	10.4	-146.71	-150.1	381.3	746.8	723.3	23.52	31.753			
5,100.0	5,041.1	5,034.7	5,033.8	16.6	10.6	-147.11	-152.9	381.0	753.9	730.0	23.92	31.522			
5,200.0	5,140.8	5,137.7	5,136.7	16.8	10.8	-147.37	-155.3	379.9	757.7	733.3	24.32	31.153			
5,300.0	5,240.8	5,241.0	5,240.0	17.0	11.1	-147.49	-157.8	378.1	758.0	733.3	24.72	30.670			
5,359.2	5,300.0	5,300.0	5,299.0	17.1	11.2	49.12	-159.3	376.9	756.6	729.6	27.01	28.018			
5,400.0	5,340.8	5,339.0	5,338.0	17.1	11.3	49.15	-160.3	376.2	755.4	728.2	27.15	27.819			
5,500.0	5,440.8	5,431.0	5,429.9	17.3	11.5	49.25	-162.6	375.5	753.2	725.7	27.49	27.400			
5,600.0	5,540.8	5,525.4	5,524.3	17.4	11.7	49.37	-164.7	375.6	751.8	724.0	27.80	27.042			
5,700.0	5,640.8	5,622.0	5,620.9	17.5	11.8	49.50	-166.5	376.1	751.0	722.9	28.10	26.729			
5,800.0	5,740.8	5,718.5	5,717.4	17.6	12.0	49.64	-168.0	377.1	750.8	722.4	28.37	26.459			
5,900.0	5,840.8	5,818.4	5,817.3	17.8	12.1	49.80	-169.7	378.4	750.7	722.0	28.65	26.205			
5,936.8	5,877.6	5,855.1	5,853.9	17.8	12.2	49.87	-170.3	378.9	750.7	721.9	28.75	26.113			
5,950.0	5,890.8	5,868.2	5,867.0	17.8	12.2	-40.12	-170.5	379.1	750.6	723.6	26.92	27.880			
6,000.0	5,940.7	5,918.1	5,916.9	17.9	12.3	-40.25	-171.4	379.8	748.7	721.7	26.95	27.783			
6,050.0	5,990.3	5,968.1	5,966.9	18.0	12.3	-40.66	-172.4	380.6	744.2	717.3	26.89	27.679			
6,100.0	6,039.5	6,017.4	6,016.2	18.0	12.4	-41.36	-173.4	381.4	737.3	710.6	26.75	27.563			
6,150.0	6,088.0	6,065.5	6,064.3	18.0	12.5	-42.35	-174.3	382.2	728.1	701.6	26.55	27.428			
6,200.0	6,135.6	6,113.1	6,111.8	18.1	12.6	-43.67	-175.2	382.9	716.6	690.3	26.29	27.257			
6,250.0	6,182.1	6,160.3	6,159.0	18.1	12.6	-45.34	-176.1	383.7	703.0	677.0	26.01	27.025			
6,300.0	6,227.2	6,206.1	6,204.8	18.1	12.7	-47.37	-177.0	384.5	687.3	661.6	25.74	26.704			
6,350.0	6,270.9	6,249.5	6,248.2	18.1	12.8	-49.75	-177.9	385.2	669.9	644.4	25.51	26.262			
6,400.0	6,312.9	6,291.3	6,290.0	18.1	12.8	-52.50	-178.7	385.9	651.1	625.7	25.37	25.666			
6,450.0	6,353.0	6,331.7	6,330.4	18.2	12.9	-55.64	-179.5	386.6	631.0	605.6	25.36	24.886			
6,500.0	6,391.1	6,370.2	6,368.9	18.2	13.0	-59.15	-180.2	387.4	610.0	584.5	25.51	23.913			
6,550.0	6,427.0	6,406.5	6,405.2	18.2	13.0	-62.96	-180.9	388.1	588.6	562.7	25.85	22.769			
6,600.0	6,460.6	6,440.1	6,438.8	18.3	13.1	-66.97	-181.5	388.7	567.2	540.8	26.37	21.511			
6,650.0	6,491.6	6,471.3	6,469.9	18.3	13.1	-71.09	-182.1	389.3	546.4	519.3	27.04	20.207			
6,700.0	6,520.0	6,500.0	6,498.6	18.4	13.1	-75.20	-182.5	389.9	526.7	498.9	27.82	18.935			
6,750.0	6,545.7	6,525.8	6,524.4	18.6	13.2	-79.10	-182.9	390.4	508.9	480.3	28.65	17.764			
6,800.0	6,568.5	6,548.8	6,547.4	18.8	13.2	-82.68	-183.2	390.8	493.7	464.2	29.51	16.732			
6,850.0	6,588.3	6,568.8	6,567.4	19.1	13.2	-85.79	-183.4	391.1	481.8	451.4	30.37	15.865			
6,900.0	6,605.1	6,585.9	6,584.5	19.6	13.3	-88.33	-183.5	391.4	473.9	442.7	31.24	15.169			
6,950.0	6,618.8	6,600.0	6,598.6	20.2	13.3	-90.22	-183.7	391.6	470.6	438.5	32.13	14.645			
6,958.9	6,620.9	6,602.2	6,600.8	20.3	13.3	-90.48	-183.7	391.7	470.5	438.2	32.30	14.567			
7,000.0	6,629.3	6,611.2	6,609.8	20.9	13.3	-91.43	-183.8	391.8	472.2	439.2	33.06	14.284			
7,050.0	6,636.6	6,619.3	6,617.9	21.7	13.3	-91.89	-183.8	392.0	479.0	445.0	34.03	14.075			
7,100.0	6,640.7	6,624.2	6,622.8	22.6	13.3	-91.57	-183.9	392.0	490.8	455.7	35.03	14.008 SF			
7,142.7	6,641.5	6,625.7	6,624.3	23.5	13.3	-90.66	-183.9	392.1	504.6	468.7	35.90	14.056			
7,200.0	6,641.1	6,626.2	6,624.8	24.6	13.3	-90.72	-183.9	392.1	528.1	490.9	37.13	14.224			
7,300.0	6,640.3	6,627.1	6,625.7	26.8	13.3	-90.82	-183.9	392.1	580.4	541.0	39.36	14.745			
7,400.0	6,639.5	6,628.0	6,626.6	29.1	13.3	-90.93	-183.9	392.1	644.1	602.4	41.70	15.445			
7,500.0	6,638.8	6,628.8	6,627.4	31.4	13.3	-91.04	-183.9	392.1	716.2	672.1	44.12	16.231			
7,600.0	6,638.0	6,629.7	6,628.3	33.9	13.3	-91.14	-183.9	392.1	794.3	747.7	46.60	17.043			
7,700.0	6,637.2	6,630.6	6,629.2	36.4	13.3	-91.25	-183.9	392.1	876.9	827.8	49.13	17.847			
7,800.0	6,636.5	6,631.5	6,630.1	38.9	13.3	-91.36	-183.9	392.2	962.8	911.1	51.70	18.622			

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 5 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.0 ft
Reference		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		
6,600.0	6,460.6	6,440.7	6,440.0	18.3	12.2	13.93	-807.1	1,033.1	970.0	949.2	20.84	46.555		
6,650.0	6,491.6	6,471.6	6,471.0	18.3	12.2	15.69	-806.9	1,033.0	931.2	911.4	19.79	47.051		
6,700.0	6,520.0	6,499.9	6,499.3	18.4	12.2	17.91	-806.8	1,032.9	890.6	871.7	18.90	47.111		
6,750.0	6,545.7	6,525.4	6,524.8	18.6	12.2	20.77	-806.7	1,032.9	848.2	829.9	18.32	46.301		
6,800.0	6,568.5	6,548.1	6,547.5	18.8	12.3	24.49	-806.5	1,032.8	804.4	786.2	18.26	44.050		
6,850.0	6,588.3	6,567.8	6,567.2	19.1	12.3	29.41	-806.4	1,032.7	759.4	740.3	19.01	39.942		
6,900.0	6,605.1	6,584.5	6,583.9	19.6	12.3	35.93	-806.3	1,032.7	713.2	692.4	20.84	34.220		
6,950.0	6,618.8	6,598.1	6,597.4	20.2	12.3	44.54	-806.3	1,032.6	666.3	642.4	23.85	27.938		
7,000.0	6,629.3	6,608.4	6,607.8	20.9	12.3	55.52	-806.2	1,032.6	618.8	591.1	27.69	22.345		
7,050.0	6,636.6	6,615.6	6,614.9	21.7	12.3	68.42	-806.2	1,032.6	570.9	539.5	31.44	18.161		
7,100.0	6,640.7	6,619.5	6,618.8	22.6	12.3	81.79	-806.2	1,032.6	523.0	489.1	33.95	15.407		
7,142.7	6,641.5	6,620.2	6,619.6	23.5	12.3	92.11	-806.2	1,032.6	482.3	447.5	34.80	13.859		
7,200.0	6,641.1	6,619.6	6,619.0	24.6	12.3	91.88	-806.2	1,032.6	428.4	392.3	36.04	11.886		
7,300.0	6,640.3	6,618.6	6,617.9	26.8	12.3	91.49	-806.2	1,032.6	336.7	298.5	38.29	8.794		
7,400.0	6,639.5	6,617.5	6,616.9	29.1	12.3	91.09	-806.2	1,032.6	251.6	210.9	40.65	6.189		
7,500.0	6,638.8	6,616.5	6,615.9	31.4	12.3	90.70	-806.2	1,032.6	182.2	139.1	43.08	4.230		
7,600.0	6,638.0	6,615.4	6,614.8	33.9	12.3	90.30	-806.2	1,032.6	152.0	106.4	45.58	3.335		
7,600.5	6,638.0	6,615.4	6,614.8	33.9	12.3	90.30	-806.2	1,032.6	152.0	106.4	45.59	3.334 CC, ES, SF		
7,700.0	6,637.2	6,614.4	6,613.8	36.4	12.3	89.91	-806.2	1,032.6	181.7	133.6	48.12	3.776		
7,800.0	6,636.5	6,613.4	6,612.7	38.9	12.3	89.51	-806.2	1,032.6	250.8	200.1	50.69	4.947		
7,900.0	6,635.7	6,612.3	6,611.7	41.5	12.3	89.12	-806.2	1,032.6	335.8	282.5	53.30	6.301		
8,000.0	6,634.9	6,611.3	6,610.6	44.1	12.3	88.72	-806.2	1,032.6	427.4	371.5	55.93	7.642		
8,100.0	6,634.2	6,610.2	6,609.6	46.7	12.3	88.33	-806.2	1,032.6	522.1	463.5	58.57	8.913		
8,200.0	6,633.4	6,609.2	6,608.5	49.3	12.3	87.94	-806.2	1,032.6	618.4	557.2	61.24	10.099		
8,300.0	6,632.6	6,608.1	6,607.5	52.0	12.3	87.54	-806.2	1,032.6	715.8	651.9	63.91	11.200		
8,400.0	6,631.9	6,607.1	6,606.4	54.7	12.3	87.15	-806.2	1,032.6	813.8	747.2	66.59	12.221		
8,500.0	6,631.1	6,606.0	6,605.4	57.3	12.3	86.76	-806.2	1,032.6	912.2	842.9	69.28	13.168		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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-													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			
14,600.0	6,584.3	6,741.6	6,618.4	227.0	23.4	113.91	-798.7	8,930.6	912.0	682.0	230.00	3.965			
14,700.0	6,583.5	6,736.2	6,613.0	229.8	23.4	112.08	-798.7	8,930.9	813.7	578.2	235.50	3.455			
14,800.0	6,582.7	6,730.6	6,607.4	232.6	23.4	110.13	-798.9	8,931.3	715.8	474.7	241.04	2.970			
14,900.0	6,581.9	6,717.0	6,593.8	235.4	23.3	105.23	-799.1	8,932.2	618.5	368.6	249.93	2.475			
15,000.0	6,581.2	6,717.0	6,593.8	238.2	23.3	105.23	-799.1	8,932.2	522.1	269.4	252.64	2.066			
15,100.0	6,580.4	6,709.9	6,586.7	241.0	23.3	102.59	-799.3	8,932.6	427.2	169.1	258.09	1.655			
15,200.0	6,579.6	6,701.5	6,578.3	243.8	23.3	99.37	-799.4	8,933.2	335.2	71.7	263.52	1.272	Level 3		
15,300.0	6,578.9	6,693.7	6,570.5	246.6	23.3	96.36	-799.6	8,933.6	249.1	-19.0	268.12	0.929	Level 1		
15,400.0	6,578.1	6,686.5	6,563.3	249.4	23.3	93.55	-799.7	8,934.1	178.0	-94.0	272.01	0.654	Level 1		
15,500.0	6,577.3	6,679.8	6,556.7	252.2	23.3	90.93	-799.8	8,934.4	145.7	-129.6	275.29	0.529	Level 1		
15,502.6	6,577.3	6,679.6	6,556.5	252.3	23.3	90.87	-799.8	8,934.5	145.7	-129.7	275.37	0.529	Level 1, CC, ES, SF		
15,600.0	6,576.6	6,673.6	6,550.5	255.0	23.3	88.50	-799.9	8,934.8	175.1	-102.9	278.07	0.630	Level 1		
15,700.0	6,575.8	6,667.8	6,544.7	257.8	23.2	86.24	-800.0	8,935.1	245.0	-35.4	280.43	0.874	Level 1		
15,800.0	6,575.0	6,662.4	6,539.3	260.6	23.2	84.14	-800.1	8,935.3	330.7	48.2	282.44	1.171	Level 2		
15,900.0	6,574.3	6,657.4	6,534.3	263.4	23.2	82.19	-800.1	8,935.6	422.6	138.4	284.18	1.487	Level 3		
16,000.0	6,573.5	6,652.6	6,529.6	266.2	23.2	80.38	-800.2	8,935.8	517.5	231.8	285.69	1.811			
16,100.0	6,572.7	6,648.2	6,525.1	269.0	23.2	78.69	-800.2	8,936.0	614.0	326.9	287.03	2.139			
16,200.0	6,572.0	6,644.0	6,520.9	271.8	23.2	77.13	-800.2	8,936.2	711.4	423.1	288.24	2.468			
16,300.0	6,571.2	6,640.0	6,517.0	274.6	23.2	75.66	-800.3	8,936.3	809.4	520.1	289.33	2.797			
16,325.7	6,571.0	6,639.1	6,516.0	275.3	23.2	75.30	-800.3	8,936.4	834.7	545.1	289.60	2.882			

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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														
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		
14,000.0	6,588.9	6,919.0	6,585.9	210.1	37.6	-93.02	-171.2	8,268.9	966.5	720.7	245.76	3.933		
14,100.0	6,588.1	6,916.8	6,583.7	212.9	37.6	-92.76	-171.2	8,268.9	881.3	632.7	248.61	3.545		
14,200.0	6,587.3	6,914.6	6,581.5	215.7	37.6	-92.50	-171.1	8,268.9	799.6	548.2	251.45	3.180		
14,300.0	6,586.6	6,912.4	6,579.3	218.5	37.6	-92.24	-171.1	8,269.0	722.5	468.2	254.30	2.841		
14,400.0	6,585.8	6,910.3	6,577.2	221.3	37.5	-91.99	-171.1	8,269.0	651.6	394.5	257.13	2.534		
14,500.0	6,585.0	6,908.1	6,575.1	224.2	37.5	-91.73	-171.0	8,269.0	589.3	329.3	259.97	2.267		
14,600.0	6,584.3	6,906.0	6,573.0	227.0	37.5	-91.48	-171.0	8,269.1	538.3	275.5	262.80	2.049		
14,700.0	6,583.5	6,903.9	6,570.9	229.8	37.5	-91.24	-171.0	8,269.1	502.4	236.8	265.62	1.891		
14,800.0	6,582.7	6,901.9	6,568.8	232.6	37.5	-90.99	-171.0	8,269.1	484.7	216.3	268.44	1.806		
14,837.2	6,582.4	6,901.1	6,568.0	233.6	37.5	-90.90	-170.9	8,269.1	483.3	213.8	269.49	1.793	CC, ES, SF	
14,900.0	6,581.9	6,899.8	6,566.8	235.4	37.5	-90.75	-170.9	8,269.1	487.4	216.1	271.26	1.797		
15,000.0	6,581.2	6,897.8	6,564.7	238.2	37.5	-90.51	-170.9	8,269.2	510.0	235.9	274.07	1.861		
15,100.0	6,580.4	6,895.8	6,562.7	241.0	37.5	-90.27	-170.9	8,269.2	550.1	273.2	276.88	1.987		
15,200.0	6,579.6	6,893.8	6,560.8	243.8	37.5	-90.04	-170.8	8,269.2	604.3	324.6	279.69	2.161		
15,300.0	6,578.9	6,891.9	6,558.8	246.6	37.5	-89.81	-170.8	8,269.2	669.1	386.6	282.49	2.369		
15,400.0	6,578.1	6,889.9	6,556.9	249.4	37.5	-89.58	-170.8	8,269.3	741.8	456.5	285.29	2.600		
15,500.0	6,577.3	6,888.0	6,554.9	252.2	37.5	-89.35	-170.7	8,269.3	820.2	532.1	288.08	2.847		
15,600.0	6,576.6	6,886.1	6,553.0	255.0	37.5	-89.12	-170.7	8,269.3	902.9	612.0	290.87	3.104		
15,700.0	6,575.8	6,884.2	6,551.2	257.8	37.5	-88.90	-170.7	8,269.4	988.8	695.1	293.65	3.367		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	Offset TVD Reference:	Offset Datum

Offset Design													Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 32-25 - Wellbore #1 - Wellbore #1		Offset Site Error:		0.0 ft	
Survey Program: 181-Reference				Offset		Semi Major Axis			Distance					Offset Well Error:		0.0 ft		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning					
14,300.0	6,586.6	6,940.6	6,592.1	218.5	37.9	92.40	-1,461.2	8,288.0	980.5	726.7	253.80	3.863						
14,400.0	6,585.8	6,936.5	6,588.1	221.3	37.9	92.12	-1,461.2	8,288.1	927.4	670.8	256.65	3.614						
14,500.0	6,585.0	6,932.5	6,584.1	224.2	37.9	91.83	-1,461.3	8,288.2	882.6	623.1	259.50	3.401						
14,600.0	6,584.3	6,928.5	6,580.1	227.0	37.9	91.55	-1,461.3	8,288.4	847.2	584.8	262.34	3.229						
14,700.0	6,583.5	6,924.6	6,576.2	229.8	37.9	91.27	-1,461.4	8,288.5	822.4	557.3	265.18	3.101						
14,800.0	6,582.7	6,920.6	6,572.2	232.6	37.9	90.99	-1,461.5	8,288.6	809.4	541.4	268.01	3.020						
14,856.7	6,582.3	6,918.4	6,570.0	234.1	37.9	90.83	-1,461.5	8,288.7	807.4	537.8	269.61	2.995	CC					
14,900.0	6,581.9	6,916.7	6,568.3	235.4	37.9	90.71	-1,461.5	8,288.7	808.6	537.7	270.83	2.985	ES, SF					
15,000.0	6,581.2	6,912.8	6,564.4	238.2	37.9	90.44	-1,461.6	8,288.8	820.0	546.3	273.65	2.996						
15,100.0	6,580.4	6,908.9	6,560.5	241.0	37.9	90.16	-1,461.6	8,288.9	843.2	566.7	276.47	3.050						
15,200.0	6,579.6	6,905.1	6,556.7	243.8	37.9	89.89	-1,461.7	8,289.0	877.3	598.0	279.28	3.141						
15,300.0	6,578.9	6,901.3	6,552.9	246.6	37.9	89.62	-1,461.7	8,289.1	920.9	638.9	282.08	3.265						
15,400.0	6,578.1	6,897.4	6,549.0	249.4	37.9	89.35	-1,461.8	8,289.3	973.0	688.1	284.88	3.415						

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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														
Measured Depth (ft)	Vertical Depth (ft)	Offset		Semi Major Axis			Distance						Warning	
		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		
15,300.0	6,578.9	6,649.0	6,579.9	246.6	19.1	-93.48	-139.0	9,558.3	974.1	711.9	262.27	3.714		
15,400.0	6,578.1	6,644.2	6,575.1	249.4	19.1	-92.95	-139.1	9,558.5	890.9	625.7	265.19	3.359		
15,500.0	6,577.3	6,639.3	6,570.2	252.2	19.1	-92.41	-139.2	9,558.6	811.4	543.3	268.09	3.027		
15,600.0	6,576.6	6,634.4	6,565.3	255.0	19.1	-91.86	-139.3	9,558.8	736.9	465.9	270.98	2.719		
15,700.0	6,575.8	6,629.4	6,560.3	257.8	19.1	-91.30	-139.4	9,559.1	669.0	395.2	273.84	2.443		
15,800.0	6,575.0	6,624.2	6,555.1	260.6	19.1	-90.74	-139.5	9,559.3	610.1	333.4	276.68	2.205		
15,900.0	6,574.3	6,619.0	6,549.9	263.4	19.1	-90.16	-139.5	9,559.5	562.7	283.2	279.50	2.013		
16,000.0	6,573.5	6,613.8	6,544.7	266.2	19.0	-89.57	-139.7	9,559.7	530.2	247.9	282.29	1.878		
16,100.0	6,572.7	6,608.4	6,539.3	269.0	19.0	-88.97	-139.8	9,559.9	515.3	230.2	285.05	1.808		
16,128.2	6,572.5	6,606.8	6,537.8	269.8	19.0	-88.80	-139.8	9,560.0	514.5	228.7	285.83	1.800 CC, ES, SF		
16,200.0	6,572.0	6,602.9	6,533.8	271.8	19.0	-88.36	-139.9	9,560.2	519.5	231.7	287.78	1.805		
16,300.0	6,571.2	6,597.3	6,528.3	274.6	19.0	-87.75	-140.0	9,560.4	542.3	251.9	290.48	1.867		
16,325.7	6,571.0	6,595.9	6,526.8	275.3	19.0	-87.59	-140.0	9,560.5	551.0	259.8	291.17	1.892		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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: 92-Reference												Offset Well Error:	0.0 ft
Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 42-25 - Wellbore #1 - Wellbore #1													
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
15,600.0	6,576.6	6,630.8	6,543.8	255.0	19.9	89.61	-1,449.5	9,599.2	977.0	705.8	271.18	3.603	
15,700.0	6,575.8	6,631.8	6,544.8	257.8	19.9	89.68	-1,449.5	9,599.2	922.5	648.5	273.98	3.367	
15,800.0	6,575.0	6,632.8	6,545.9	260.6	20.0	89.76	-1,449.5	9,599.2	876.1	599.3	276.79	3.165	
15,900.0	6,574.3	6,634.0	6,547.1	263.4	20.0	89.85	-1,449.5	9,599.3	839.0	559.5	279.59	3.001	
16,000.0	6,573.5	6,635.3	6,548.4	266.2	20.0	89.94	-1,449.5	9,599.3	812.7	530.3	282.40	2.878	
16,100.0	6,572.7	6,636.7	6,549.7	269.0	20.0	90.04	-1,449.5	9,599.3	798.1	512.9	285.20	2.799	
16,167.5	6,572.2	6,637.7	6,550.7	270.9	20.0	90.11	-1,449.5	9,599.3	795.3	508.2	287.09	2.770	CC
16,200.0	6,572.0	6,638.2	6,551.2	271.8	20.0	90.15	-1,449.5	9,599.3	795.9	507.9	288.00	2.764	ES, SF
16,300.0	6,571.2	6,639.8	6,552.9	274.6	20.0	90.27	-1,449.5	9,599.4	806.2	515.4	290.81	2.772	
16,325.7	6,571.0	6,640.3	6,553.4	275.3	20.0	90.30	-1,449.5	9,599.4	810.9	519.3	291.53	2.781	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	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: 91-Reference												Offset Well Error:	0.0 ft
Kuner 8-2-25 Pad Sec.25-T5N-R64W - Kuner 8-2-25 - Wellbore #1 - Wellbore #1													
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	Warning
15,800.0	6,575.0	6,554.3	6,539.1	260.6	14.0	88.12	-787.0	10,217.5	994.7	720.2	274.42	3.625	
15,900.0	6,574.3	6,554.9	6,539.6	263.4	14.0	88.35	-787.0	10,217.5	895.7	618.4	277.26	3.230	
16,000.0	6,573.5	6,555.4	6,540.2	266.2	14.0	88.58	-787.0	10,217.5	796.9	516.8	280.09	2.845	
16,100.0	6,572.7	6,555.9	6,540.7	269.0	14.0	88.80	-787.0	10,217.6	698.5	415.6	282.91	2.469	
16,200.0	6,572.0	6,556.4	6,541.2	271.8	14.0	89.03	-787.0	10,217.6	600.6	314.9	285.73	2.102	
16,300.0	6,571.2	6,557.0	6,541.8	274.6	14.0	89.26	-787.0	10,217.6	503.6	215.0	288.55	1.745	
16,325.7	6,571.0	6,557.1	6,541.9	275.3	14.0	89.32	-787.0	10,217.6	478.8	189.6	289.28	1.655 CC, ES, SF	

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4621.0ft (RKB - 23')

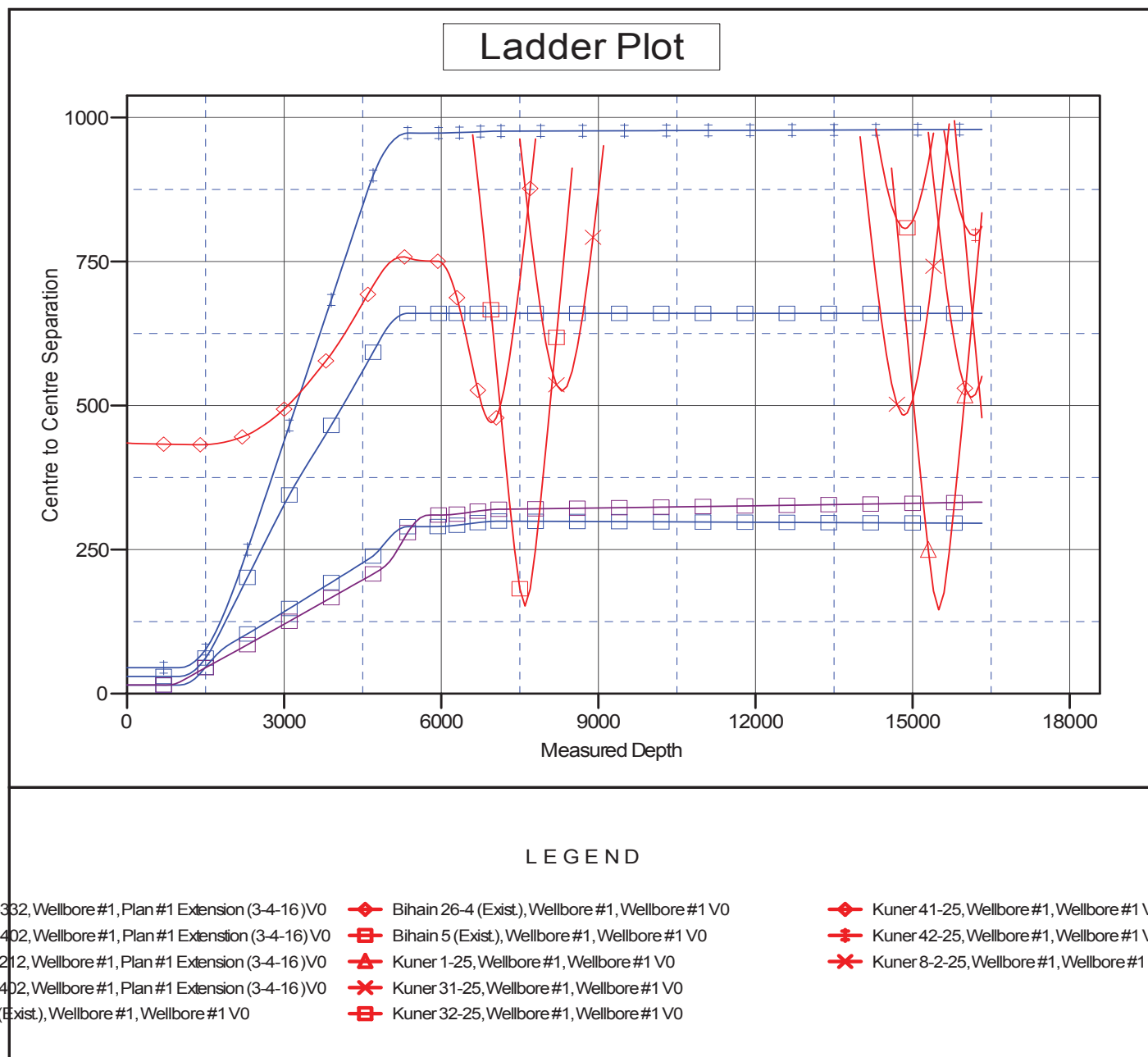
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: Connie 26F-302

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.63°



Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26F-302
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4621.0ft (RKB - 23')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4621.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26F-302	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 Extension (3-4-16)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4621.0ft (RKB - 23')

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: Connie 26F-302

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.63°

