

PETROLEUM DEVELOPMENT CORP DJ Basin

Well Name: **Connie 26F-212**

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

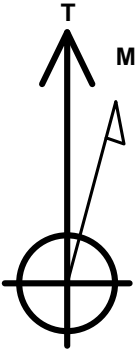
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone

Ground Elevation: 4597.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.0 0.0 1381389.01 3271507.56 40.376219 -104.525466  
RKB - 13' WELL @ 4610.0ft (RKB - 13')

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 515'FNL & 254'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 865'FNL & 2140'FWL, Sec.25	6512.0	-403.3	7150.6	Point



Azimuths to True North  
Magnetic North: 8.14°

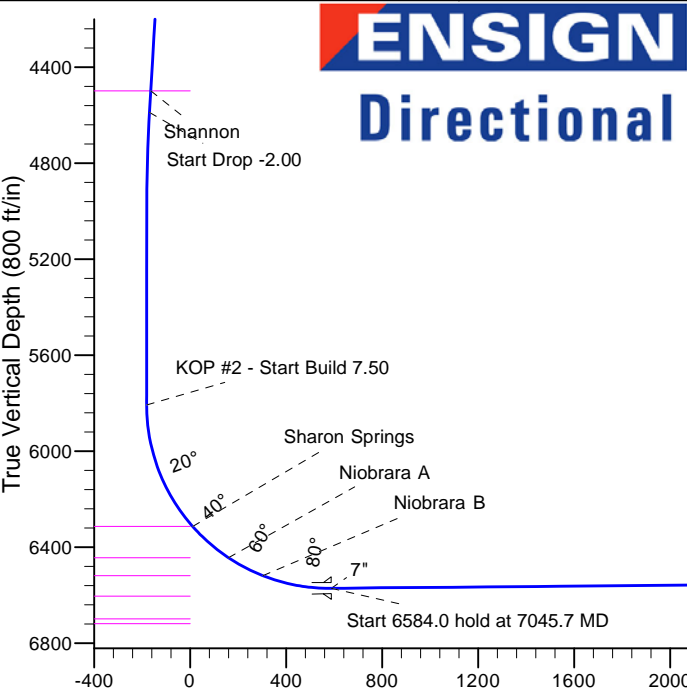
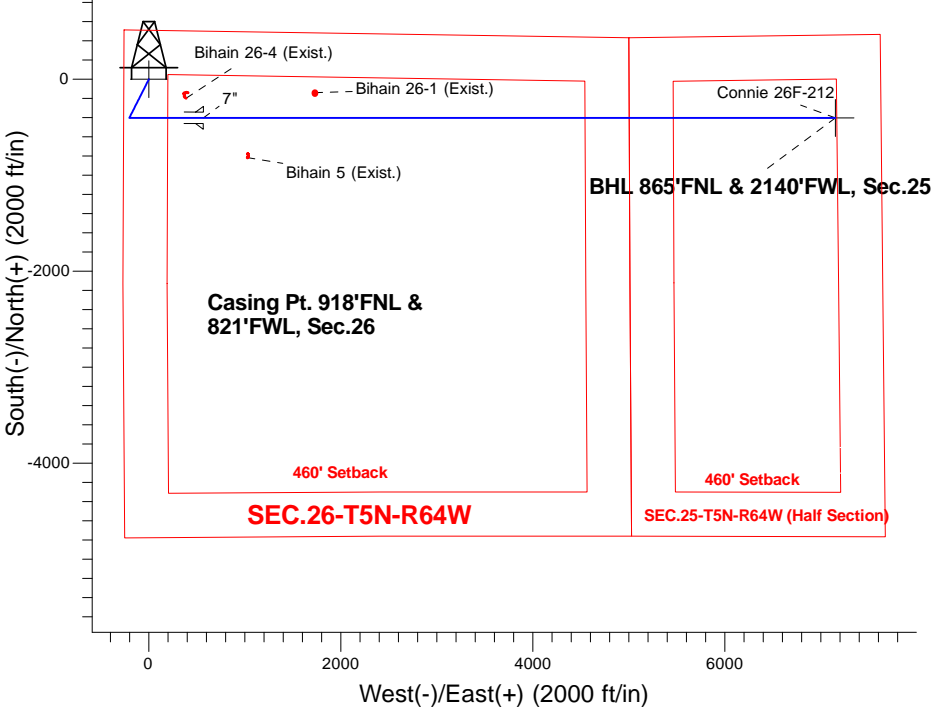
Magnetic Field  
Strength: 52683.2snT  
Dip Angle: 66.92°  
Date: 11/3/2015  
Model: IGRF2010

Connie 5N64W26EF Pad Sec.26-T5N-R64W  
Connie 26F-212  
Plan #1 (11-3-15)  
12:17, November 05 2015

ANNOTATIONS

TVD	MD	Annotation
1400.0	1400.0	KOP - Start Build 1.50
4589.0	4618.5	Start Drop -2.00
5807.8	5838.8	KOP #2 - Start Build 7.50
6571.8	7045.7	Start 6584.0 hold at 7045.7 MD
6512.0	13629.7	TD at 13629.7

SHL 515'FNL & 254'FWL, Sec.26



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	1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	
3	1949.8	8.25	206.83	1947.9	-35.3	-17.8	1.50	206.83	-15.8	
4	4618.5	8.25	206.83	4589.0	-376.9	-190.6	0.00	0.00	-169.1	
5	5030.9	0.00	0.00	5000.0	-403.3	-204.0	2.00	180.00	-181.0	
6	5838.8	0.00	0.00	5807.8	-403.3	-204.0	0.00	0.00	-181.0	
7	7045.7	90.52	90.00	6571.8	-403.3	566.9	7.50	90.00	588.7	
8	13629.7	90.52	90.00	6512.0	-403.3	7150.6	0.00	0.00	7162.0	BHL 865'FNL & 2140'FWL, Sec.25

Vertical Section at 93.23° (800 ft/in)



## **Directional**

### **PETROLEUM DEVELOPMENT CORP DJ Basin**

**SEC.26-T5N-R64W**

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

**Connie 26F-212**

**Wellbore #1**

**Plan: Plan #1 (11-3-15)**

### **Standard Planning Report**

**05 November, 2015**

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Project:</b>	SEC.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (11-3-15)		

<b>Project</b>	SEC.26-T5N-R64W, Weld County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	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-212					
Well Position	+N/-S	24.4 ft	Northing:	1,381,389.01 usft	Latitude:	40.376219
	+E/-W	17.3 ft	Easting:	3,271,507.56 usft	Longitude:	-104.525466
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,597.0 ft

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

<b>Design</b>	Plan #1 (11-3-15)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	93.23

<b>Plan Sections</b>										
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	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,949.8	8.25	206.83	1,947.9	-35.3	-17.8	1.50	1.50	0.00	206.83	
4,618.5	8.25	206.83	4,589.0	-376.9	-190.6	0.00	0.00	0.00	0.00	
5,030.9	0.00	0.00	5,000.0	-403.3	-204.0	2.00	-2.00	0.00	180.00	
5,838.8	0.00	0.00	5,807.8	-403.3	-204.0	0.00	0.00	0.00	0.00	
7,045.7	90.52	90.00	6,571.8	-403.3	566.9	7.50	7.50	0.00	90.00	
13,629.7	90.52	90.00	6,512.0	-403.3	7,150.6	0.00	0.00	0.00	0.00	BHL 865'FNL & 2140'

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26F-212
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26F-212	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-3-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 515'FNL & 254'FWL, Sec.26									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.50									
1,500.0	1.50	206.83	1,500.0	-1.2	-0.6	-0.5	1.50	1.50	0.00
1,600.0	3.00	206.83	1,599.9	-4.7	-2.4	-2.1	1.50	1.50	0.00
1,700.0	4.50	206.83	1,699.7	-10.5	-5.3	-4.7	1.50	1.50	0.00
1,800.0	6.00	206.83	1,799.3	-18.7	-9.4	-8.4	1.50	1.50	0.00
1,900.0	7.50	206.83	1,898.6	-29.2	-14.7	-13.1	1.50	1.50	0.00
1,949.8	8.25	206.83	1,947.9	-35.3	-17.8	-15.8	1.50	1.50	0.00
2,000.0	8.25	206.83	1,997.6	-41.7	-21.1	-18.7	0.00	0.00	0.00
2,100.0	8.25	206.83	2,096.6	-54.5	-27.6	-24.4	0.00	0.00	0.00
2,200.0	8.25	206.83	2,195.5	-67.3	-34.0	-30.2	0.00	0.00	0.00
2,300.0	8.25	206.83	2,294.5	-80.1	-40.5	-35.9	0.00	0.00	0.00
2,400.0	8.25	206.83	2,393.4	-92.9	-47.0	-41.7	0.00	0.00	0.00
2,500.0	8.25	206.83	2,492.4	-105.7	-53.5	-47.4	0.00	0.00	0.00
2,600.0	8.25	206.83	2,591.4	-118.5	-59.9	-53.2	0.00	0.00	0.00
2,700.0	8.25	206.83	2,690.3	-131.3	-66.4	-58.9	0.00	0.00	0.00
2,800.0	8.25	206.83	2,789.3	-144.1	-72.9	-64.6	0.00	0.00	0.00
2,900.0	8.25	206.83	2,888.3	-156.9	-79.4	-70.4	0.00	0.00	0.00
3,000.0	8.25	206.83	2,987.2	-169.7	-85.8	-76.1	0.00	0.00	0.00
3,100.0	8.25	206.83	3,086.2	-182.5	-92.3	-81.9	0.00	0.00	0.00
3,200.0	8.25	206.83	3,185.2	-195.3	-98.8	-87.6	0.00	0.00	0.00
3,300.0	8.25	206.83	3,284.1	-208.1	-105.3	-93.4	0.00	0.00	0.00
3,400.0	8.25	206.83	3,383.1	-220.9	-111.7	-99.1	0.00	0.00	0.00
3,416.1	8.25	206.83	3,399.0	-222.9	-112.8	-100.0	0.00	0.00	0.00
Parkman									
3,500.0	8.25	206.83	3,482.1	-233.7	-118.2	-104.9	0.00	0.00	0.00
3,600.0	8.25	206.83	3,581.0	-246.5	-124.7	-110.6	0.00	0.00	0.00
3,700.0	8.25	206.83	3,680.0	-259.3	-131.2	-116.3	0.00	0.00	0.00
3,800.0	8.25	206.83	3,779.0	-272.1	-137.6	-122.1	0.00	0.00	0.00
3,900.0	8.25	206.83	3,877.9	-284.9	-144.1	-127.8	0.00	0.00	0.00
4,000.0	8.25	206.83	3,976.9	-297.7	-150.6	-133.6	0.00	0.00	0.00
4,100.0	8.25	206.83	4,075.9	-310.5	-157.1	-139.3	0.00	0.00	0.00
4,128.4	8.25	206.83	4,104.0	-314.1	-158.9	-140.9	0.00	0.00	0.00
Sussex									
4,200.0	8.25	206.83	4,174.8	-323.3	-163.5	-145.1	0.00	0.00	0.00
4,300.0	8.25	206.83	4,273.8	-336.1	-170.0	-150.8	0.00	0.00	0.00
4,400.0	8.25	206.83	4,372.8	-348.9	-176.5	-156.5	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26F-212
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26F-212	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-3-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,500.0	8.25	206.83	4,471.7	-361.7	-183.0	-162.3	0.00	0.00	0.00
4,527.6	8.25	206.83	4,499.0	-365.2	-184.7	-163.9	0.00	0.00	0.00
<b>Shannon</b>									
4,600.0	8.25	206.83	4,570.7	-374.5	-189.4	-168.0	0.00	0.00	0.00
4,618.5	8.25	206.83	4,589.0	-376.9	-190.6	-169.1	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
4,700.0	6.62	206.83	4,669.8	-386.3	-195.4	-173.3	2.00	-2.00	0.00
4,800.0	4.62	206.83	4,769.3	-395.0	-199.8	-177.2	2.00	-2.00	0.00
4,900.0	2.62	206.83	4,869.1	-400.6	-202.6	-179.8	2.00	-2.00	0.00
5,000.0	0.62	206.83	4,969.1	-403.2	-203.9	-180.9	2.00	-2.00	0.00
5,030.9	0.00	0.00	5,000.0	-403.3	-204.0	-181.0	2.00	-2.00	0.00
5,100.0	0.00	0.00	5,069.1	-403.3	-204.0	-181.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,169.1	-403.3	-204.0	-181.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,269.1	-403.3	-204.0	-181.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,369.1	-403.3	-204.0	-181.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,469.1	-403.3	-204.0	-181.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,569.1	-403.3	-204.0	-181.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,669.1	-403.3	-204.0	-181.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,769.1	-403.3	-204.0	-181.0	0.00	0.00	0.00
5,838.8	0.00	0.00	5,807.9	-403.3	-204.0	-181.0	0.00	0.00	0.00
<b>KOP #2 - Start Build 7.50</b>									
5,900.0	4.59	90.00	5,869.0	-403.3	-201.5	-178.5	7.50	7.50	0.00
6,000.0	12.09	90.00	5,967.9	-403.3	-187.0	-164.0	7.50	7.50	0.00
6,100.0	19.59	90.00	6,064.0	-403.3	-159.8	-136.8	7.50	7.50	0.00
6,200.0	27.09	90.00	6,155.8	-403.3	-120.2	-97.3	7.50	7.50	0.00
6,300.0	34.59	90.00	6,241.6	-403.3	-68.9	-46.1	7.50	7.50	0.00
6,392.0	41.50	90.00	6,314.0	-403.3	-12.3	10.5	7.50	7.50	0.00
<b>Sharon Springs</b>									
6,400.0	42.09	90.00	6,319.9	-403.3	-6.9	15.8	7.50	7.50	0.00
6,500.0	49.59	90.00	6,389.6	-403.3	64.7	87.4	7.50	7.50	0.00
6,590.5	56.38	90.00	6,444.0	-403.3	137.0	159.5	7.50	7.50	0.00
<b>Niobrara A</b>									
6,600.0	57.09	90.00	6,449.2	-403.3	144.9	167.4	7.50	7.50	0.00
6,700.0	64.59	90.00	6,497.9	-403.3	232.2	254.5	7.50	7.50	0.00
6,753.1	68.58	90.00	6,519.0	-403.3	280.9	303.2	7.50	7.50	0.00
<b>Niobrara B</b>									
6,800.0	72.09	90.00	6,534.8	-403.3	325.1	347.2	7.50	7.50	0.00
6,900.0	79.59	90.00	6,559.2	-403.3	421.9	444.0	7.50	7.50	0.00
7,000.0	87.09	90.00	6,570.8	-403.3	521.2	543.1	7.50	7.50	0.00
7,045.7	90.52	90.00	6,571.8	-403.3	566.9	588.7	7.50	7.50	0.00
<b>Start 6584.0 hold at 7045.7 MD - 7"</b>									
7,100.0	90.52	90.00	6,571.3	-403.3	621.2	642.9	0.00	0.00	0.00
7,200.0	90.52	90.00	6,570.4	-403.3	721.2	742.7	0.00	0.00	0.00
7,300.0	90.52	90.00	6,569.4	-403.3	821.2	842.6	0.00	0.00	0.00
7,400.0	90.52	90.00	6,568.5	-403.3	921.2	942.4	0.00	0.00	0.00
7,500.0	90.52	90.00	6,567.6	-403.3	1,021.2	1,042.3	0.00	0.00	0.00
7,600.0	90.52	90.00	6,566.7	-403.3	1,121.2	1,142.1	0.00	0.00	0.00
7,700.0	90.52	90.00	6,565.8	-403.3	1,221.2	1,241.9	0.00	0.00	0.00
7,800.0	90.52	90.00	6,564.9	-403.3	1,321.2	1,341.8	0.00	0.00	0.00
7,900.0	90.52	90.00	6,564.0	-403.3	1,421.1	1,441.6	0.00	0.00	0.00
8,000.0	90.52	90.00	6,563.1	-403.3	1,521.1	1,541.4	0.00	0.00	0.00
8,100.0	90.52	90.00	6,562.2	-403.3	1,621.1	1,641.3	0.00	0.00	0.00

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Project:</b>	SEC.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (11-3-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,200.0	90.52	90.00	6,561.3	-403.3	1,721.1	1,741.1	0.00	0.00	0.00
8,300.0	90.52	90.00	6,560.4	-403.3	1,821.1	1,841.0	0.00	0.00	0.00
8,400.0	90.52	90.00	6,559.5	-403.3	1,921.1	1,940.8	0.00	0.00	0.00
8,500.0	90.52	90.00	6,558.6	-403.3	2,021.1	2,040.6	0.00	0.00	0.00
8,600.0	90.52	90.00	6,557.6	-403.3	2,121.1	2,140.5	0.00	0.00	0.00
8,700.0	90.52	90.00	6,556.7	-403.3	2,221.1	2,240.3	0.00	0.00	0.00
8,800.0	90.52	90.00	6,555.8	-403.3	2,321.1	2,340.1	0.00	0.00	0.00
8,900.0	90.52	90.00	6,554.9	-403.3	2,421.1	2,440.0	0.00	0.00	0.00
9,000.0	90.52	90.00	6,554.0	-403.3	2,521.1	2,539.8	0.00	0.00	0.00
9,100.0	90.52	90.00	6,553.1	-403.3	2,621.1	2,639.7	0.00	0.00	0.00
9,200.0	90.52	90.00	6,552.2	-403.3	2,721.1	2,739.5	0.00	0.00	0.00
9,300.0	90.52	90.00	6,551.3	-403.3	2,821.1	2,839.3	0.00	0.00	0.00
9,400.0	90.52	90.00	6,550.4	-403.3	2,921.1	2,939.2	0.00	0.00	0.00
9,500.0	90.52	90.00	6,549.5	-403.3	3,021.1	3,039.0	0.00	0.00	0.00
9,600.0	90.52	90.00	6,548.6	-403.3	3,121.1	3,138.8	0.00	0.00	0.00
9,700.0	90.52	90.00	6,547.7	-403.3	3,221.1	3,238.7	0.00	0.00	0.00
9,800.0	90.52	90.00	6,546.8	-403.3	3,321.1	3,338.5	0.00	0.00	0.00
9,900.0	90.52	90.00	6,545.8	-403.3	3,421.1	3,438.3	0.00	0.00	0.00
10,000.0	90.52	90.00	6,544.9	-403.3	3,521.1	3,538.2	0.00	0.00	0.00
10,100.0	90.52	90.00	6,544.0	-403.3	3,621.1	3,638.0	0.00	0.00	0.00
10,200.0	90.52	90.00	6,543.1	-403.3	3,721.1	3,737.9	0.00	0.00	0.00
10,300.0	90.52	90.00	6,542.2	-403.3	3,821.0	3,837.7	0.00	0.00	0.00
10,400.0	90.52	90.00	6,541.3	-403.3	3,921.0	3,937.5	0.00	0.00	0.00
10,500.0	90.52	90.00	6,540.4	-403.3	4,021.0	4,037.4	0.00	0.00	0.00
10,600.0	90.52	90.00	6,539.5	-403.3	4,121.0	4,137.2	0.00	0.00	0.00
10,700.0	90.52	90.00	6,538.6	-403.3	4,221.0	4,237.0	0.00	0.00	0.00
10,800.0	90.52	90.00	6,537.7	-403.3	4,321.0	4,336.9	0.00	0.00	0.00
10,900.0	90.52	90.00	6,536.8	-403.3	4,421.0	4,436.7	0.00	0.00	0.00
11,000.0	90.52	90.00	6,535.9	-403.3	4,521.0	4,536.6	0.00	0.00	0.00
11,100.0	90.52	90.00	6,535.0	-403.3	4,621.0	4,636.4	0.00	0.00	0.00
11,200.0	90.52	90.00	6,534.1	-403.3	4,721.0	4,736.2	0.00	0.00	0.00
11,300.0	90.52	90.00	6,533.1	-403.3	4,821.0	4,836.1	0.00	0.00	0.00
11,400.0	90.52	90.00	6,532.2	-403.3	4,921.0	4,935.9	0.00	0.00	0.00
11,500.0	90.52	90.00	6,531.3	-403.3	5,021.0	5,035.7	0.00	0.00	0.00
11,600.0	90.52	90.00	6,530.4	-403.3	5,121.0	5,135.6	0.00	0.00	0.00
11,700.0	90.52	90.00	6,529.5	-403.3	5,221.0	5,235.4	0.00	0.00	0.00
11,800.0	90.52	90.00	6,528.6	-403.3	5,321.0	5,335.3	0.00	0.00	0.00
11,900.0	90.52	90.00	6,527.7	-403.3	5,421.0	5,435.1	0.00	0.00	0.00
12,000.0	90.52	90.00	6,526.8	-403.3	5,521.0	5,534.9	0.00	0.00	0.00
12,100.0	90.52	90.00	6,525.9	-403.3	5,621.0	5,634.8	0.00	0.00	0.00
12,200.0	90.52	90.00	6,525.0	-403.3	5,721.0	5,734.6	0.00	0.00	0.00
12,300.0	90.52	90.00	6,524.1	-403.3	5,821.0	5,834.4	0.00	0.00	0.00
12,400.0	90.52	90.00	6,523.2	-403.3	5,921.0	5,934.3	0.00	0.00	0.00
12,500.0	90.52	90.00	6,522.3	-403.3	6,021.0	6,034.1	0.00	0.00	0.00
12,600.0	90.52	90.00	6,521.3	-403.3	6,121.0	6,134.0	0.00	0.00	0.00
12,700.0	90.52	90.00	6,520.4	-403.3	6,220.9	6,233.8	0.00	0.00	0.00
12,800.0	90.52	90.00	6,519.5	-403.3	6,320.9	6,333.6	0.00	0.00	0.00
12,900.0	90.52	90.00	6,518.6	-403.3	6,420.9	6,433.5	0.00	0.00	0.00
13,000.0	90.52	90.00	6,517.7	-403.3	6,520.9	6,533.3	0.00	0.00	0.00
13,100.0	90.52	90.00	6,516.8	-403.3	6,620.9	6,633.1	0.00	0.00	0.00
13,200.0	90.52	90.00	6,515.9	-403.3	6,720.9	6,733.0	0.00	0.00	0.00
13,300.0	90.52	90.00	6,515.0	-403.3	6,820.9	6,832.8	0.00	0.00	0.00
13,400.0	90.52	90.00	6,514.1	-403.3	6,920.9	6,932.7	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26F-212
Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Project:	SEC.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	North Reference:	True
Well:	Connie 26F-212	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-3-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	90.52	90.00	6,513.2	-403.3	7,020.9	7,032.5	0.00	0.00	0.00
13,600.0	90.52	90.00	6,512.3	-403.3	7,120.9	7,132.3	0.00	0.00	0.00
13,629.7	90.52	90.00	6,512.0	-403.3	7,150.6	7,162.0	0.00	0.00	0.00
TD at 13629.7 - BHL 865'FNL & 2140'FWL, Sec.25									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL 515'FNL & 254'FWL - plan hits target center - Point	0.00	0.63	1.0	0.0	0.0	1,381,389.02	3,271,507.56	40.376219	-104.525466
BHL 865'FNL & 2140'FW - plan hits target center - Point	0.00	0.65	6,512.0	-403.3	7,150.6	1,381,064.29	3,278,661.87	40.375109	-104.499802

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,045.7	6,571.8	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,416.1	3,399.0	Parkman		0.00	
4,128.4	4,104.0	Sussex		0.00	
4,527.6	4,499.0	Shannon		0.00	
6,392.0	6,314.0	Sharon Springs		0.00	
6,590.5	6,444.0	Niobrara A		0.00	
6,753.1	6,519.0	Niobrara B		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,400.0	1,400.0	0.0	0.0	KOP - Start Build 1.50
4,618.5	4,589.0	-35.3	-17.8	Start Drop -2.00
5,838.8	5,807.8	-376.9	-190.6	KOP #2 - Start Build 7.50
7,045.7	6,571.8	-403.3	-204.0	Start 6584.0 hold at 7045.7 MD
13,629.7	6,512.0	-403.3	-204.0	TD at 13629.7



# Directional

## **PETROLEUM DEVELOPMENT CORP DJ Basin**

**SEC.26-T5N-R64W**

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

**Connie 26F-212**

**Wellbore #1**

**Plan #1 (11-3-15)**

## **Anticollision Report**

**05 November, 2015**





<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	11/5/2015		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	13,629.7	Plan #1 (11-3-15) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Connie 5N64W26EF Pad Sec.26-T5N-R64W						
Connie 26E-202 - Wellbore #1 - Plan #1 (11-3-15)	1,400.0	1,400.0	30.2	24.1	4.977	CC, ES
Connie 26E-202 - Wellbore #1 - Plan #1 (11-3-15)	13,629.7	13,628.6	717.3	312.7	1.773	SF
Connie 26E-332 - Wellbore #1 - Plan #1 (11-3-15)	1,400.0	1,400.0	15.1	9.0	2.488	CC, ES
Connie 26E-332 - Wellbore #1 - Plan #1 (11-3-15)	13,629.7	13,676.6	445.6	45.5	1.114	Level 2, SF
Connie 26F-302 - Wellbore #1 - Plan #1 (11-2-15)	966.3	967.3	14.8	10.7	3.592	CC
Connie 26F-302 - Wellbore #1 - Plan #1 (11-2-15)	13,629.7	13,735.4	273.7	-118.7	0.698	Level 1, ES, SF
Connie 26F-402 - Wellbore #1 - Plan #1 (11-2-15)	800.0	801.0	29.9	26.5	8.863	CC, ES
Connie 26F-402 - Wellbore #1 - Plan #1 (11-2-15)	13,629.7	13,863.9	592.6	203.7	1.524	SF
Existing Wells Pad Sec.26-T5N-R64W						
Bihain 26-1 (Exist.) - Wellbore #1 - Wellbore #1	8,209.4	6,544.2	262.4	79.9	1.438	Level 3, CC, ES, SF
Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1	6,859.8	6,541.8	208.2	176.4	6.542	CC, ES
Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1	6,900.0	6,550.7	211.9	179.3	6.506	SF
Bihain 5 (Exist.) - Wellbore #1 - Wellbore #1	7,502.9	6,557.4	415.2	369.9	9.159	CC, ES
Bihain 5 (Exist.) - Wellbore #1 - Wellbore #1	7,600.0	6,556.3	426.4	378.6	8.920	SF

<b>Offset Design</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26E-202 - Wellbore #1 - Plan #1 (11-3-15)											<b>Offset Site Error:</b>	0.0 ft
<b>Survey Program:</b>	0-MWD											<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (ft)	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	34.89	24.8	17.3	30.2				
100.0	100.0	100.0	100.0	0.1	0.1	34.89	24.8	17.3	30.2	0.22	134.367		
200.0	200.0	200.0	200.0	0.3	0.3	34.89	24.8	17.3	30.2	0.67	44.789		
300.0	300.0	300.0	300.0	0.6	0.6	34.89	24.8	17.3	30.2	1.12	26.873		
400.0	400.0	400.0	400.0	0.8	0.8	34.89	24.8	17.3	30.2	1.57	19.195		
500.0	500.0	500.0	500.0	1.0	1.0	34.89	24.8	17.3	30.2	2.02	14.930		
600.0	600.0	600.0	600.0	1.2	1.2	34.89	24.8	17.3	30.2	2.47	12.215		
700.0	700.0	700.0	700.0	1.5	1.5	34.89	24.8	17.3	30.2	2.92	10.336		
800.0	800.0	800.0	800.0	1.7	1.7	34.89	24.8	17.3	30.2	3.37	8.958		
900.0	900.0	900.0	900.0	1.9	1.9	34.89	24.8	17.3	30.2	3.82	7.904		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	34.89	24.8	17.3	30.2	4.27	7.072		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	34.89	24.8	17.3	30.2	4.72	6.398		

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	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		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	34.89	24.8	17.3	30.2	25.0	5.17	5.842		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	34.89	24.8	17.3	30.2	24.6	5.62	5.375		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	34.89	24.8	17.3	30.2	24.1	6.07	4.977 CC, ES		
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.3	-172.27	24.8	17.3	31.5	25.0	6.49	4.853		
1,600.0	1,599.9	1,599.9	1,599.9	3.4	3.5	-173.12	24.8	17.3	35.4	28.5	6.89	5.139		
1,700.0	1,699.7	1,699.3	1,699.3	3.6	3.7	-175.83	25.8	16.5	42.4	35.1	7.28	5.817		
1,800.0	1,799.3	1,798.1	1,798.1	3.8	3.9	179.57	28.9	14.2	53.1	45.4	7.68	6.915		
1,900.0	1,898.6	1,896.2	1,895.9	4.0	4.1	174.77	33.9	10.3	67.9	59.8	8.07	8.409		
1,949.8	1,947.9	1,944.6	1,944.1	4.1	4.3	172.57	37.1	7.8	76.9	68.6	8.28	9.290		
2,000.0	1,997.6	1,993.1	1,992.4	4.2	4.4	170.53	40.8	5.0	86.7	78.2	8.49	10.212		
2,100.0	2,096.6	2,089.3	2,087.9	4.5	4.6	166.82	49.6	-1.7	107.6	98.7	8.92	12.060		
2,200.0	2,195.5	2,186.4	2,184.2	4.8	4.8	163.78	59.7	-9.4	129.8	120.5	9.37	13.854		
2,300.0	2,294.5	2,283.7	2,280.7	5.0	5.1	161.61	69.8	-17.1	152.3	142.5	9.83	15.498		
2,400.0	2,393.4	2,381.0	2,377.1	5.3	5.4	160.01	79.9	-24.9	175.0	164.7	10.29	16.998		
2,500.0	2,492.4	2,478.3	2,473.6	5.6	5.6	158.77	90.0	-32.6	197.7	186.9	10.76	18.367		
2,600.0	2,591.4	2,575.6	2,570.1	5.9	5.9	157.79	100.1	-40.3	220.5	209.3	11.24	19.615		
2,700.0	2,690.3	2,672.9	2,666.5	6.2	6.2	156.99	110.2	-48.0	243.4	231.6	11.72	20.757		
2,800.0	2,789.3	2,770.2	2,763.0	6.5	6.5	156.33	120.3	-55.7	266.3	254.0	12.21	21.803		
2,900.0	2,888.3	2,867.5	2,859.5	6.9	6.7	155.77	130.4	-63.5	289.2	276.5	12.70	22.762		
3,000.0	2,987.2	2,964.8	2,955.9	7.2	7.0	155.30	140.5	-71.2	312.1	298.9	13.20	23.646		
3,100.0	3,086.2	3,062.1	3,052.4	7.5	7.3	154.89	150.6	-78.9	335.1	321.4	13.70	24.460		
3,200.0	3,185.2	3,159.4	3,148.9	7.8	7.6	154.53	160.7	-86.6	358.1	343.9	14.20	25.213		
3,300.0	3,284.1	3,256.7	3,245.3	8.2	7.9	154.22	170.8	-94.3	381.1	366.4	14.71	25.910		
3,400.0	3,383.1	3,354.0	3,341.8	8.5	8.2	153.94	180.9	-102.1	404.1	388.8	15.21	26.557		
3,500.0	3,482.1	3,451.3	3,438.3	8.8	8.5	153.69	191.0	-109.8	427.1	411.3	15.72	27.159		
3,600.0	3,581.0	3,548.6	3,534.7	9.2	8.8	153.47	201.1	-117.5	450.1	433.8	16.24	27.720		
3,700.0	3,680.0	3,645.9	3,631.2	9.5	9.1	153.27	211.3	-125.2	473.1	456.3	16.75	28.245		
3,800.0	3,779.0	3,743.2	3,727.7	9.8	9.4	153.08	221.4	-132.9	496.1	478.9	17.27	28.735		
3,900.0	3,877.9	3,840.5	3,824.1	10.2	9.7	152.92	231.5	-140.7	519.1	501.4	17.78	29.195		
4,000.0	3,976.9	3,937.8	3,920.6	10.5	10.0	152.77	241.6	-148.4	542.2	523.9	18.30	29.627		
4,100.0	4,075.9	4,035.1	4,017.1	10.9	10.3	152.63	251.7	-156.1	565.2	546.4	18.82	30.033		
4,200.0	4,174.8	4,132.4	4,113.5	11.2	10.6	152.50	261.8	-163.8	588.3	568.9	19.34	30.415		
4,300.0	4,273.8	4,229.7	4,210.0	11.6	11.0	152.38	271.9	-171.6	611.3	591.4	19.86	30.776		
4,400.0	4,372.8	4,327.0	4,306.5	11.9	11.3	152.27	282.0	-179.3	634.3	614.0	20.39	31.117		
4,500.0	4,471.7	4,424.3	4,402.9	12.3	11.6	152.16	292.1	-187.0	657.4	636.5	20.91	31.440		
4,600.0	4,570.7	4,539.1	4,516.9	12.6	11.9	152.13	302.8	-195.2	679.5	658.0	21.43	31.709		
4,618.5	4,589.0	4,561.5	4,539.2	12.7	11.9	152.15	304.5	-196.5	683.2	661.7	21.52	31.749		
4,700.0	4,669.8	4,660.9	4,638.3	12.9	12.1	152.41	310.3	-201.0	697.3	675.4	21.95	31.773		
4,800.0	4,769.3	4,784.4	4,761.8	13.1	12.4	152.77	313.8	-203.6	708.8	686.4	22.42	31.621		
4,900.0	4,869.1	4,891.8	4,869.1	13.3	12.5	153.06	314.0	-203.7	714.6	691.8	22.83	31.299		
5,000.0	4,969.1	4,991.7	4,969.1	13.5	12.7	153.18	314.0	-203.7	717.1	693.9	23.23	30.869		
5,030.9	5,000.0	5,022.6	5,000.0	13.6	12.8	0.02	314.0	-203.7	717.3	692.1	25.19	28.477		
5,100.0	5,069.1	5,091.7	5,069.1	13.7	12.9	0.02	314.0	-203.7	717.3	691.8	25.44	28.196		
5,200.0	5,169.1	5,191.7	5,169.1	13.8	13.1	0.02	314.0	-203.7	717.3	691.5	25.79	27.808		
5,300.0	5,269.1	5,291.7	5,269.1	14.0	13.3	0.02	314.0	-203.7	717.3	691.1	26.15	27.426		
5,400.0	5,369.1	5,391.7	5,369.1	14.1	13.5	0.02	314.0	-203.7	717.3	690.8	26.51	27.053		
5,500.0	5,469.1	5,491.7	5,469.1	14.3	13.7	0.02	314.0	-203.7	717.3	690.4	26.88	26.686		
5,600.0	5,569.1	5,591.7	5,569.1	14.4	13.9	0.02	314.0	-203.7	717.3	690.0	27.24	26.328		
5,700.0	5,669.1	5,691.7	5,669.1	14.6	14.1	0.02	314.0	-203.7	717.3	689.7	27.61	25.976		
5,800.0	5,769.1	5,791.7	5,769.1	14.8	14.3	0.02	314.0	-203.7	717.3	689.3	27.98	25.632		
5,838.8	5,807.8	5,830.5	5,807.8	14.8	14.3	0.02	314.0	-203.7	717.3	689.1	28.13	25.500		

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	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		
5,850.0	5,819.1	5,841.7	5,819.1	14.9	14.4	-89.98	314.0	-203.7	717.3	690.7	26.59	26.977		
5,863.4	5,832.5	5,855.1	5,832.5	14.9	14.4	-90.00	314.0	-203.6	717.3	690.6	26.63	26.930		
5,900.0	5,869.0	5,891.7	5,869.0	14.9	14.4	-90.04	314.0	-202.0	717.3	690.5	26.75	26.809		
5,950.0	5,918.7	5,941.8	5,918.8	15.0	14.5	-90.09	314.0	-197.1	717.3	690.4	26.89	26.670		
6,000.0	5,967.9	5,991.9	5,968.2	15.0	14.6	-90.15	314.0	-188.8	717.3	690.3	27.01	26.555		
6,050.0	6,016.4	6,042.0	6,017.0	15.1	14.6	-90.20	314.0	-177.4	717.3	690.2	27.11	26.458		
6,100.0	6,064.0	6,092.2	6,065.0	15.1	14.6	-90.25	314.0	-162.7	717.3	690.1	27.20	26.373		
6,150.0	6,110.5	6,142.4	6,112.0	15.1	14.7	-90.30	314.0	-145.0	717.3	690.0	27.28	26.291		
6,200.0	6,155.8	6,192.7	6,157.7	15.2	14.7	-90.35	314.0	-124.1	717.3	689.9	27.38	26.199		
6,250.0	6,199.5	6,243.0	6,202.0	15.2	14.7	-90.40	314.0	-100.3	717.3	689.8	27.50	26.085		
6,300.0	6,241.6	6,293.3	6,244.7	15.2	14.7	-90.45	314.0	-73.6	717.3	689.6	27.66	25.933		
6,350.0	6,281.8	6,343.7	6,285.5	15.2	14.7	-90.49	314.0	-44.1	717.3	689.4	27.88	25.725		
6,400.0	6,319.9	6,394.1	6,324.4	15.2	14.8	-90.53	314.0	-11.9	717.3	689.1	28.19	25.445		
6,450.0	6,355.9	6,444.6	6,361.0	15.3	14.8	-90.57	314.0	22.7	717.3	688.7	28.60	25.080		
6,500.0	6,389.6	6,495.1	6,395.3	15.3	14.9	-90.61	314.0	59.7	717.3	688.2	29.14	24.619		
6,550.0	6,420.7	6,545.6	6,427.1	15.4	15.2	-90.65	314.0	99.0	717.3	687.5	29.82	24.057		
6,600.0	6,449.2	6,596.1	6,456.3	15.5	15.6	-90.68	314.0	140.2	717.3	686.7	30.66	23.399		
6,650.0	6,475.0	6,646.7	6,482.7	15.9	16.1	-90.71	314.0	183.4	717.3	685.7	31.66	22.654		
6,700.0	6,497.9	6,697.3	6,506.2	16.4	16.7	-90.73	314.0	228.2	717.3	684.5	32.84	21.840		
6,750.0	6,517.9	6,747.9	6,526.6	17.1	17.4	-90.76	314.0	274.5	717.3	683.1	34.20	20.977		
6,800.0	6,534.8	6,798.5	6,544.0	17.8	18.2	-90.78	314.0	322.0	717.3	681.6	35.71	20.087		
6,850.0	6,548.6	6,849.2	6,558.2	18.7	19.0	-90.79	314.0	370.6	717.3	680.0	37.38	19.191		
6,900.0	6,559.2	6,899.9	6,569.1	19.6	19.9	-90.81	314.0	420.1	717.3	678.2	39.18	18.309		
6,950.0	6,566.6	6,950.5	6,576.8	20.5	20.9	-90.82	314.0	470.2	717.4	676.3	41.10	17.455		
7,000.0	6,570.8	7,001.2	6,581.1	21.6	21.9	-90.82	314.0	520.7	717.4	674.2	43.11	16.640		
7,045.7	6,571.8	7,047.5	6,582.1	22.5	22.8	-90.82	314.0	567.0	717.4	672.3	45.01	15.936		
7,100.0	6,571.3	7,101.8	6,581.5	23.7	24.0	-90.82	314.0	621.3	717.4	670.0	47.34	15.154		
7,200.0	6,570.4	7,201.8	6,580.4	25.9	26.2	-90.80	314.0	721.3	717.4	665.5	51.81	13.846		
7,300.0	6,569.4	7,301.8	6,579.4	28.3	28.5	-90.79	314.0	821.3	717.3	660.9	56.49	12.700		
7,400.0	6,568.5	7,401.8	6,578.3	30.7	30.9	-90.78	314.0	921.3	717.3	656.0	61.32	11.698		
7,500.0	6,567.6	7,501.8	6,577.2	33.2	33.4	-90.77	314.0	1,021.3	717.3	651.1	66.28	10.823		
7,600.0	6,566.7	7,601.8	6,576.2	35.7	35.9	-90.75	314.0	1,121.3	717.3	646.0	71.34	10.056		
7,700.0	6,565.8	7,701.8	6,575.1	38.3	38.4	-90.74	314.0	1,221.3	717.3	640.9	76.47	9.380		
7,800.0	6,564.9	7,801.8	6,574.0	40.9	41.0	-90.73	314.0	1,321.2	717.3	635.7	81.67	8.783		
7,900.0	6,564.0	7,901.8	6,573.0	43.5	43.6	-90.72	314.0	1,421.2	717.3	630.4	86.93	8.252		
8,000.0	6,563.1	8,001.8	6,571.9	46.2	46.3	-90.70	314.0	1,521.2	717.3	625.1	92.22	7.778		
8,100.0	6,562.2	8,101.8	6,570.8	48.8	48.9	-90.69	314.0	1,621.2	717.3	619.8	97.55	7.353		
8,200.0	6,561.3	8,201.8	6,569.8	51.5	51.6	-90.68	314.0	1,721.2	717.3	614.4	102.91	6.970		
8,300.0	6,560.4	8,301.8	6,568.7	54.2	54.3	-90.67	314.0	1,821.2	717.3	609.0	108.30	6.623		
8,400.0	6,559.5	8,401.8	6,567.6	56.9	57.0	-90.65	314.0	1,921.2	717.3	603.6	113.71	6.308		
8,500.0	6,558.6	8,501.8	6,566.6	59.6	59.7	-90.64	314.0	2,021.2	717.3	598.2	119.14	6.021		
8,600.0	6,557.6	8,601.8	6,565.5	62.4	62.4	-90.63	314.0	2,121.2	717.3	592.7	124.59	5.758		
8,700.0	6,556.7	8,701.8	6,564.5	65.1	65.1	-90.62	314.0	2,221.2	717.3	587.3	130.05	5.516		
8,800.0	6,555.8	8,801.8	6,563.4	67.8	67.9	-90.60	314.0	2,321.2	717.3	581.8	135.53	5.293		
8,900.0	6,554.9	8,901.8	6,562.3	70.6	70.6	-90.59	314.0	2,421.2	717.3	576.3	141.01	5.087		
9,000.0	6,554.0	9,001.8	6,561.3	73.3	73.4	-90.58	314.0	2,521.2	717.3	570.8	146.51	4.896		
9,100.0	6,553.1	9,101.8	6,560.2	76.1	76.1	-90.57	314.0	2,621.2	717.3	565.3	152.01	4.719		
9,200.0	6,552.2	9,201.8	6,559.1	78.8	78.9	-90.55	314.0	2,721.2	717.3	559.8	157.53	4.554		
9,300.0	6,551.3	9,301.8	6,558.1	81.6	81.6	-90.54	314.0	2,821.2	717.3	554.3	163.05	4.399		
9,400.0	6,550.4	9,401.8	6,557.0	84.3	84.4	-90.53	314.0	2,921.2	717.3	548.8	168.58	4.255		
9,500.0	6,549.5	9,501.8	6,555.9	87.1	87.1	-90.52	314.0	3,021.1	717.3	543.2	174.11	4.120		

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	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		
9,600.0	6,548.6	9,601.8	6,554.9	89.9	89.9	-90.50	314.0	3,121.1	717.3	537.7	179.65	3.993		
9,700.0	6,547.7	9,701.8	6,553.8	92.6	92.7	-90.49	314.0	3,221.1	717.3	532.1	185.19	3.873		
9,800.0	6,546.8	9,801.8	6,552.7	95.4	95.4	-90.48	314.0	3,321.1	717.3	526.6	190.74	3.761		
9,900.0	6,545.8	9,901.8	6,551.7	98.2	98.2	-90.47	314.0	3,421.1	717.3	521.0	196.29	3.654		
10,000.0	6,544.9	10,001.8	6,550.6	101.0	101.0	-90.45	314.0	3,521.1	717.3	515.5	201.85	3.554		
10,100.0	6,544.0	10,101.8	6,549.5	103.8	103.8	-90.44	314.0	3,621.1	717.3	509.9	207.41	3.459		
10,200.0	6,543.1	10,201.8	6,548.5	106.5	106.5	-90.43	314.0	3,721.1	717.3	504.4	212.97	3.368		
10,300.0	6,542.2	10,301.8	6,547.4	109.3	109.3	-90.42	314.0	3,821.1	717.3	498.8	218.53	3.282		
10,400.0	6,541.3	10,401.8	6,546.4	112.1	112.1	-90.40	314.0	3,921.1	717.3	493.2	224.10	3.201		
10,500.0	6,540.4	10,501.8	6,545.3	114.9	114.9	-90.39	314.0	4,021.1	717.3	487.6	229.67	3.123		
10,600.0	6,539.5	10,601.8	6,544.2	117.7	117.7	-90.38	314.0	4,121.1	717.3	482.1	235.25	3.049		
10,700.0	6,538.6	10,701.8	6,543.2	120.5	120.5	-90.37	314.0	4,221.1	717.3	476.5	240.82	2.979		
10,800.0	6,537.7	10,801.8	6,542.1	123.2	123.3	-90.35	314.0	4,321.1	717.3	470.9	246.40	2.911		
10,900.0	6,536.8	10,901.8	6,541.0	126.0	126.0	-90.34	314.0	4,421.1	717.3	465.3	251.98	2.847		
11,000.0	6,535.9	11,001.8	6,540.0	128.8	128.8	-90.33	314.0	4,521.1	717.3	459.8	257.56	2.785		
11,100.0	6,535.0	11,101.8	6,538.9	131.6	131.6	-90.31	314.0	4,621.1	717.3	454.2	263.14	2.726		
11,200.0	6,534.1	11,201.8	6,537.8	134.4	134.4	-90.30	314.0	4,721.1	717.3	448.6	268.72	2.669		
11,300.0	6,533.1	11,301.8	6,536.8	137.2	137.2	-90.29	314.0	4,821.0	717.3	443.0	274.31	2.615		
11,400.0	6,532.2	11,401.8	6,535.7	140.0	140.0	-90.28	314.0	4,921.0	717.3	437.4	279.90	2.563		
11,484.9	6,531.5	11,486.7	6,534.8	142.4	142.4	-90.27	314.0	5,005.9	717.3	432.7	284.64	2.520		
11,500.0	6,531.3	11,501.8	6,534.6	142.8	142.8	-90.26	314.0	5,021.0	717.3	431.8	285.49	2.513		
11,600.0	6,530.4	11,601.8	6,533.6	145.6	145.6	-90.25	314.0	5,121.0	717.3	426.2	291.07	2.464		
11,700.0	6,529.5	11,701.8	6,532.5	148.4	148.4	-90.24	314.0	5,221.0	717.3	420.7	296.67	2.418		
11,800.0	6,528.6	11,801.8	6,531.4	151.2	151.2	-90.23	314.0	5,321.0	717.3	415.1	302.26	2.373		
11,900.0	6,527.7	11,901.8	6,530.4	154.0	154.0	-90.21	314.0	5,421.0	717.3	409.5	307.85	2.330		
12,000.0	6,526.8	12,001.8	6,529.3	156.8	156.8	-90.20	314.0	5,521.0	717.3	403.9	313.44	2.289		
12,100.0	6,525.9	12,101.8	6,528.3	159.6	159.6	-90.19	314.0	5,621.0	717.3	398.3	319.04	2.248		
12,200.0	6,525.0	12,201.8	6,527.2	162.4	162.4	-90.18	314.0	5,721.0	717.3	392.7	324.63	2.210		
12,300.0	6,524.1	12,301.8	6,526.1	165.2	165.1	-90.16	314.0	5,821.0	717.3	387.1	330.23	2.172		
12,400.0	6,523.2	12,401.8	6,525.1	168.0	167.9	-90.15	314.0	5,921.0	717.3	381.5	335.83	2.136		
12,500.0	6,522.3	12,501.8	6,524.0	170.8	170.7	-90.14	314.0	6,021.0	717.3	375.9	341.43	2.101		
12,600.0	6,521.3	12,601.8	6,522.9	173.6	173.5	-90.13	314.0	6,121.0	717.3	370.3	347.02	2.067		
12,700.0	6,520.4	12,701.8	6,521.9	176.4	176.3	-90.11	314.0	6,221.0	717.3	364.7	352.62	2.034		
12,800.0	6,519.5	12,801.8	6,520.8	179.2	179.1	-90.10	314.0	6,321.0	717.3	359.1	358.22	2.002		
12,900.0	6,518.6	12,901.8	6,519.7	182.0	181.9	-90.09	314.0	6,421.0	717.3	353.5	363.82	1.972		
13,000.0	6,517.7	13,001.8	6,518.7	184.8	184.7	-90.08	314.0	6,520.9	717.3	347.9	369.43	1.942		
13,100.0	6,516.8	13,101.8	6,517.6	187.6	187.5	-90.06	314.0	6,620.9	717.3	342.3	375.03	1.913		
13,200.0	6,515.9	13,201.8	6,516.5	190.4	190.3	-90.05	314.0	6,720.9	717.3	336.7	380.63	1.885		
13,300.0	6,515.0	13,301.8	6,515.5	193.2	193.1	-90.04	314.0	6,820.9	717.3	331.1	386.23	1.857		
13,400.0	6,514.1	13,401.8	6,514.4	196.0	195.9	-90.03	314.0	6,920.9	717.3	325.5	391.84	1.831		
13,500.0	6,513.2	13,501.8	6,513.3	198.8	198.7	-90.01	314.0	7,020.9	717.3	319.9	397.44	1.805		
13,600.0	6,512.3	13,601.8	6,512.3	201.6	201.5	-90.00	314.0	7,120.9	717.3	314.3	403.04	1.780		
13,613.1	6,512.2	13,615.0	6,512.1	201.9	201.9	-90.00	314.0	7,134.0	717.3	313.5	403.78	1.777		
13,629.7	6,512.0	13,628.6	6,512.0	202.4	202.3	-90.00	314.0	7,147.6	717.3	312.7	404.62	1.773 SF		

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	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	
0.0	0.0	0.0	0.0	0.0	0.0	34.89	12.4	8.6	15.1	15.1	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	34.89	12.4	8.6	15.1	14.9	0.22	67.184		
200.0	200.0	200.0	200.0	0.3	0.3	34.89	12.4	8.6	15.1	14.4	0.67	22.395		
300.0	300.0	300.0	300.0	0.6	0.6	34.89	12.4	8.6	15.1	14.0	1.12	13.437		
400.0	400.0	400.0	400.0	0.8	0.8	34.89	12.4	8.6	15.1	13.5	1.57	9.598		
500.0	500.0	500.0	500.0	1.0	1.0	34.89	12.4	8.6	15.1	13.1	2.02	7.465		
600.0	600.0	600.0	600.0	1.2	1.2	34.89	12.4	8.6	15.1	12.6	2.47	6.108		
700.0	700.0	700.0	700.0	1.5	1.5	34.89	12.4	8.6	15.1	12.2	2.92	5.168		
800.0	800.0	800.0	800.0	1.7	1.7	34.89	12.4	8.6	15.1	11.7	3.37	4.479		
900.0	900.0	900.0	900.0	1.9	1.9	34.89	12.4	8.6	15.1	11.3	3.82	3.952		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	34.89	12.4	8.6	15.1	10.8	4.27	3.536		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	34.89	12.4	8.6	15.1	10.4	4.72	3.199		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	34.89	12.4	8.6	15.1	9.9	5.17	2.921		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	34.89	12.4	8.6	15.1	9.5	5.62	2.687		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	34.89	12.4	8.6	15.1	9.0	6.07	2.488 CC, ES		
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.3	-172.58	12.4	8.6	16.4	9.9	6.49	2.527		
1,600.0	1,599.9	1,599.9	1,599.9	3.4	3.5	-174.01	12.4	8.6	20.3	13.4	6.89	2.947		
1,700.0	1,699.7	1,699.7	1,699.7	3.6	3.7	-175.46	12.4	8.6	26.8	19.5	7.28	3.680		
1,800.0	1,799.3	1,799.3	1,799.3	3.8	3.9	-176.61	12.4	8.6	35.9	28.3	7.68	4.678		
1,900.0	1,898.6	1,898.6	1,898.6	4.0	4.2	-177.43	12.4	8.6	47.7	39.6	8.08	5.900		
1,949.8	1,947.9	1,947.9	1,947.9	4.1	4.3	-177.75	12.4	8.6	54.5	46.2	8.28	6.583		
2,000.0	1,997.6	1,997.6	1,997.6	4.2	4.4	-178.01	12.4	8.6	61.7	53.2	8.49	7.267		
2,100.0	2,096.6	2,096.6	2,096.6	4.5	4.6	-178.39	12.4	8.6	76.0	67.1	8.91	8.532		
2,200.0	2,195.5	2,195.5	2,195.5	4.8	4.8	-178.64	12.4	8.6	90.4	81.0	9.34	9.678		
2,300.0	2,294.5	2,294.5	2,294.5	5.0	5.0	-178.83	12.4	8.6	104.7	94.9	9.77	10.720		
2,400.0	2,393.4	2,393.4	2,393.4	5.3	5.3	-178.97	12.4	8.6	119.1	108.9	10.20	11.670		
2,500.0	2,492.4	2,492.4	2,492.4	5.6	5.5	-179.08	12.4	8.6	133.4	122.8	10.64	12.539		
2,600.0	2,591.4	2,592.2	2,592.2	5.9	5.7	-179.44	12.5	7.9	147.5	136.4	11.07	13.325		
2,700.0	2,690.3	2,692.2	2,692.2	6.2	5.9	179.67	12.8	5.4	161.0	149.5	11.49	14.009		
2,800.0	2,789.3	2,792.3	2,792.2	6.5	6.1	178.38	13.2	1.2	173.9	162.0	11.92	14.594		
2,900.0	2,888.3	2,892.3	2,892.0	6.9	6.3	176.75	13.9	-4.7	186.4	174.1	12.35	15.093		
3,000.0	2,987.2	2,992.3	2,991.7	7.2	6.5	174.85	14.8	-12.4	198.6	185.8	12.80	15.520		
3,100.0	3,086.2	3,092.2	3,091.1	7.5	6.8	172.70	15.9	-21.7	210.6	197.3	13.26	15.886		
3,200.0	3,185.2	3,191.1	3,189.6	7.8	7.0	170.58	17.1	-31.9	222.7	208.9	13.73	16.221		
3,300.0	3,284.1	3,290.1	3,288.0	8.2	7.2	168.69	18.2	-42.0	235.0	220.8	14.21	16.541		
3,400.0	3,383.1	3,389.0	3,386.4	8.5	7.5	166.98	19.4	-52.2	247.6	232.9	14.70	16.846		
3,500.0	3,482.1	3,488.0	3,484.8	8.8	7.7	165.44	20.6	-62.4	260.3	245.1	15.19	17.135		
3,600.0	3,581.0	3,586.9	3,583.2	9.2	7.9	164.04	21.7	-72.5	273.2	257.5	15.70	17.409		
3,700.0	3,680.0	3,685.9	3,681.7	9.5	8.2	162.77	22.9	-82.7	286.3	270.1	16.21	17.667		
3,800.0	3,779.0	3,784.8	3,780.1	9.8	8.4	161.61	24.1	-92.8	299.5	282.8	16.72	17.911		
3,900.0	3,877.9	3,883.8	3,878.5	10.2	8.7	160.54	25.2	-103.0	312.8	295.6	17.24	18.141		
4,000.0	3,976.9	3,982.7	3,976.9	10.5	9.0	159.57	26.4	-113.1	326.2	308.5	17.77	18.358		
4,100.0	4,075.9	4,081.7	4,075.3	10.9	9.2	158.67	27.6	-123.3	339.7	321.4	18.30	18.563		
4,200.0	4,174.8	4,180.6	4,173.8	11.2	9.5	157.84	28.7	-133.4	353.3	334.5	18.84	18.757		
4,300.0	4,273.8	4,279.6	4,272.2	11.6	9.7	157.07	29.9	-143.6	366.9	347.6	19.37	18.940		
4,400.0	4,372.8	4,378.5	4,370.6	11.9	10.0	156.36	31.1	-153.7	380.6	360.7	19.92	19.113		
4,500.0	4,471.7	4,477.5	4,469.0	12.3	10.3	155.69	32.2	-163.9	394.4	373.9	20.46	19.277		
4,600.0	4,570.7	4,576.4	4,567.4	12.6	10.5	155.07	33.4	-174.0	408.2	387.2	21.01	19.432		
4,618.5	4,589.0	4,594.8	4,585.7	12.7	10.6	154.96	33.6	-175.9	410.8	389.7	21.11	19.460		
4,700.0	4,669.8	4,675.5	4,666.0	12.9	10.8	154.52	34.6	-184.2	421.0	399.4	21.58	19.512		
4,800.0	4,769.3	4,775.8	4,765.8	13.1	11.1	153.87	35.7	-193.8	430.7	408.7	22.09	19.496		

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26E-332 - Wellbore #1 - Plan #1 (11-3-15)											Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
4,900.0	4,869.1	4,877.1	4,866.9	13.3	11.3	153.45	36.4	-200.3	437.1	414.5	22.53	19.399			
5,000.0	4,969.1	4,978.8	4,968.5	13.5	11.5	153.26	36.8	-203.2	439.9	417.0	22.91	19.204			
5,030.9	5,000.0	5,010.3	5,000.0	13.6	11.5	0.08	36.8	-203.4	440.1	416.2	23.88	18.429			
5,100.0	5,069.1	5,079.3	5,069.1	13.7	11.6	0.08	36.8	-203.4	440.1	416.0	24.13	18.235			
5,200.0	5,169.1	5,179.3	5,169.1	13.8	11.8	0.08	36.8	-203.4	440.1	415.6	24.51	17.959			
5,300.0	5,269.1	5,279.3	5,269.1	14.0	12.1	0.08	36.8	-203.4	440.1	415.2	24.88	17.686			
5,400.0	5,369.1	5,379.3	5,369.1	14.1	12.3	0.08	36.8	-203.4	440.1	414.8	25.26	17.420			
5,500.0	5,469.1	5,479.3	5,469.1	14.3	12.5	0.08	36.8	-203.4	440.1	414.4	25.64	17.161			
5,600.0	5,569.1	5,579.3	5,569.1	14.4	12.7	0.08	36.8	-203.4	440.1	414.1	26.03	16.908			
5,700.0	5,669.1	5,679.3	5,669.1	14.6	12.9	0.08	36.8	-203.4	440.1	413.7	26.41	16.662			
5,800.0	5,769.1	5,779.3	5,769.1	14.8	13.1	0.08	36.8	-203.4	440.1	413.3	26.80	16.421			
5,838.8	5,807.8	5,818.1	5,807.8	14.8	13.2	0.08	36.8	-203.4	440.1	413.1	26.95	16.329			
5,850.0	5,819.1	5,829.3	5,819.1	14.9	13.2	-89.93	36.8	-203.4	440.1	413.8	26.25	16.765			
5,869.9	5,839.0	5,849.2	5,839.0	14.9	13.3	-90.00	36.8	-203.4	440.1	413.8	26.33	16.716			
5,900.0	5,869.0	5,879.3	5,869.0	14.9	13.3	-90.24	36.8	-203.4	440.1	413.6	26.45	16.640			
5,950.0	5,918.7	5,929.3	5,919.0	15.0	13.4	-90.82	36.8	-202.3	440.1	413.5	26.62	16.531			
6,000.0	5,967.9	5,979.7	5,969.2	15.0	13.5	-91.41	36.8	-197.9	440.2	413.4	26.78	16.441			
6,050.0	6,016.4	6,030.3	6,019.3	15.1	13.5	-92.00	36.8	-190.2	440.4	413.5	26.90	16.368			
6,100.0	6,064.0	6,081.3	6,069.0	15.1	13.6	-92.58	36.8	-179.1	440.5	413.5	27.02	16.307			
6,150.0	6,110.5	6,132.6	6,118.2	15.1	13.7	-93.15	36.8	-164.6	440.8	413.6	27.12	16.254			
6,200.0	6,155.8	6,184.2	6,166.6	15.2	13.7	-93.71	36.8	-146.7	441.0	413.8	27.22	16.202			
6,250.0	6,199.5	6,236.1	6,213.9	15.2	13.8	-94.25	36.8	-125.4	441.3	414.0	27.33	16.145			
6,300.0	6,241.6	6,288.3	6,260.0	15.2	13.9	-94.78	36.8	-100.9	441.6	414.2	27.48	16.072			
6,350.0	6,281.8	6,340.9	6,304.6	15.2	13.9	-95.28	36.8	-73.1	442.0	414.3	27.67	15.973			
6,400.0	6,319.9	6,393.7	6,347.3	15.2	14.1	-95.76	36.8	-42.1	442.3	414.4	27.93	15.836			
6,450.0	6,355.9	6,446.8	6,388.0	15.3	14.3	-96.22	36.8	-8.0	442.7	414.4	28.29	15.650			
6,500.0	6,389.6	6,500.1	6,426.5	15.3	14.5	-96.65	36.8	29.0	443.1	414.3	28.76	15.405			
6,550.0	6,420.7	6,553.8	6,462.4	15.4	14.8	-97.05	36.8	68.8	443.4	414.1	29.38	15.093			
6,600.0	6,449.2	6,607.6	6,495.6	15.5	15.2	-97.41	36.8	111.2	443.8	413.6	30.16	14.714			
6,650.0	6,475.0	6,661.7	6,525.8	15.9	15.7	-97.75	36.8	156.0	444.2	413.0	31.12	14.272			
6,700.0	6,497.9	6,716.0	6,552.9	16.4	16.3	-98.05	36.8	203.0	444.5	412.2	32.26	13.777			
6,750.0	6,517.9	6,770.5	6,576.7	17.1	17.0	-98.31	36.8	252.0	444.8	411.2	33.59	13.240			
6,800.0	6,534.8	6,825.1	6,596.9	17.8	17.8	-98.53	36.8	302.8	445.0	409.9	35.10	12.677			
6,850.0	6,548.6	6,879.9	6,613.6	18.7	18.7	-98.71	36.8	354.9	445.2	408.4	36.79	12.103			
6,900.0	6,559.2	6,934.7	6,626.4	19.6	19.6	-98.86	36.8	408.3	445.4	406.8	38.63	11.531			
6,950.0	6,566.6	6,989.7	6,635.4	20.5	20.6	-98.96	36.8	462.5	445.5	404.9	40.60	10.974			
7,000.0	6,570.8	7,044.7	6,640.5	21.6	21.7	-99.02	36.8	517.2	445.6	402.9	42.68	10.440			
7,045.7	6,571.8	7,095.0	6,641.7	22.5	22.8	-99.04	36.8	567.5	445.6	401.0	44.66	9.977			
7,100.0	6,571.3	7,149.3	6,641.2	23.7	23.9	-99.04	36.8	621.8	445.6	398.6	46.98	9.485			
7,200.0	6,570.4	7,249.3	6,640.3	25.9	26.2	-99.04	36.8	721.8	445.6	394.2	51.41	8.668			
7,300.0	6,569.4	7,349.3	6,639.4	28.3	28.5	-99.04	36.8	821.8	445.6	389.6	56.04	7.952			
7,400.0	6,568.5	7,449.3	6,638.5	30.7	30.9	-99.04	36.8	921.8	445.6	384.8	60.82	7.327			
7,500.0	6,567.6	7,549.3	6,637.6	33.2	33.4	-99.04	36.8	1,021.8	445.6	379.9	65.73	6.780			
7,600.0	6,566.7	7,649.3	6,636.7	35.7	35.9	-99.04	36.8	1,121.8	445.6	374.9	70.73	6.300			
7,700.0	6,565.8	7,749.3	6,635.8	38.3	38.4	-99.04	36.8	1,221.8	445.6	369.8	75.81	5.878			
7,800.0	6,564.9	7,849.3	6,634.9	40.9	41.0	-99.04	36.8	1,321.8	445.6	364.7	80.95	5.505			
7,900.0	6,564.0	7,949.3	6,634.0	43.5	43.7	-99.04	36.8	1,421.8	445.6	359.5	86.14	5.173			
8,000.0	6,563.1	8,049.3	6,633.1	46.2	46.3	-99.04	36.8	1,521.8	445.6	354.2	91.37	4.877			
8,100.0	6,562.2	8,149.3	6,632.2	48.8	49.0	-99.04	36.8	1,621.8	445.6	349.0	96.64	4.611			
8,200.0	6,561.3	8,249.3	6,631.3	51.5	51.6	-99.04	36.8	1,721.8	445.6	343.7	101.94	4.371			
8,300.0	6,560.4	8,349.3	6,630.3	54.2	54.3	-99.04	36.8	1,821.8	445.6	338.3	107.27	4.154			

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



<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	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	
8,400.0	6,559.5	8,449.3	6,629.4	56.9	57.0	-99.04	36.8	1,921.8	445.6	333.0	112.62	3.957	
8,500.0	6,558.6	8,549.3	6,628.5	59.6	59.8	-99.04	36.8	2,021.8	445.6	327.6	117.98	3.777	
8,600.0	6,557.6	8,649.3	6,627.6	62.4	62.5	-99.04	36.8	2,121.8	445.6	322.2	123.37	3.612	
8,700.0	6,556.7	8,749.3	6,626.7	65.1	65.2	-99.04	36.8	2,221.8	445.6	316.9	128.77	3.461	
8,800.0	6,555.8	8,849.3	6,625.8	67.8	67.9	-99.04	36.8	2,321.7	445.6	311.4	134.18	3.321	
8,900.0	6,554.9	8,949.3	6,624.9	70.6	70.7	-99.04	36.8	2,421.7	445.6	306.0	139.60	3.192	
9,000.0	6,554.0	9,049.3	6,624.0	73.3	73.4	-99.04	36.8	2,521.7	445.6	300.6	145.03	3.073	
9,100.0	6,553.1	9,149.3	6,623.1	76.1	76.2	-99.04	36.8	2,621.7	445.6	295.1	150.47	2.961	
9,200.0	6,552.2	9,249.3	6,622.2	78.8	78.9	-99.04	36.8	2,721.7	445.6	289.7	155.92	2.858	
9,300.0	6,551.3	9,349.3	6,621.3	81.6	81.7	-99.04	36.8	2,821.7	445.6	284.2	161.37	2.761	
9,400.0	6,550.4	9,449.3	6,620.4	84.3	84.5	-99.04	36.8	2,921.7	445.6	278.8	166.84	2.671	
9,500.0	6,549.5	9,549.3	6,619.5	87.1	87.2	-99.04	36.8	3,021.7	445.6	273.3	172.30	2.586	
9,600.0	6,548.6	9,649.3	6,618.5	89.9	90.0	-99.04	36.8	3,121.7	445.6	267.8	177.78	2.507	
9,700.0	6,547.7	9,749.3	6,617.6	92.6	92.8	-99.04	36.8	3,221.7	445.6	262.4	183.25	2.432	
9,800.0	6,546.8	9,849.3	6,616.7	95.4	95.5	-99.04	36.8	3,321.7	445.6	256.9	188.74	2.361	
9,900.0	6,545.8	9,949.3	6,615.8	98.2	98.3	-99.04	36.8	3,421.7	445.6	251.4	194.22	2.294	
10,000.0	6,544.9	10,049.3	6,614.9	101.0	101.1	-99.04	36.8	3,521.7	445.6	245.9	199.71	2.231	
10,100.0	6,544.0	10,149.3	6,614.0	103.8	103.9	-99.04	36.8	3,621.7	445.6	240.4	205.21	2.172	
10,200.0	6,543.1	10,249.3	6,613.1	106.5	106.6	-99.04	36.8	3,721.7	445.6	234.9	210.70	2.115	
10,300.0	6,542.2	10,349.3	6,612.2	109.3	109.4	-99.04	36.8	3,821.7	445.6	229.4	216.20	2.061	
10,400.0	6,541.3	10,449.3	6,611.3	112.1	112.2	-99.04	36.8	3,921.7	445.6	223.9	221.71	2.010	
10,500.0	6,540.4	10,549.3	6,610.4	114.9	115.0	-99.04	36.8	4,021.7	445.6	218.4	227.21	1.961	
10,600.0	6,539.5	10,649.3	6,609.5	117.7	117.8	-99.04	36.8	4,121.7	445.6	212.9	232.72	1.915	
10,700.0	6,538.6	10,749.3	6,608.6	120.5	120.6	-99.04	36.8	4,221.7	445.6	207.4	238.23	1.871	
10,800.0	6,537.7	10,849.3	6,607.7	123.2	123.3	-99.04	36.8	4,321.7	445.6	201.9	243.74	1.828	
10,900.0	6,536.8	10,949.3	6,606.8	126.0	126.1	-99.04	36.8	4,421.7	445.6	196.4	249.25	1.788	
11,000.0	6,535.9	11,049.3	6,605.8	128.8	128.9	-99.04	36.8	4,521.7	445.6	190.9	254.76	1.749	
11,100.0	6,535.0	11,149.3	6,604.9	131.6	131.7	-99.04	36.8	4,621.7	445.6	185.3	260.28	1.712	
11,200.0	6,534.1	11,249.3	6,604.0	134.4	134.5	-99.04	36.8	4,721.6	445.6	179.8	265.80	1.677	
11,300.0	6,533.1	11,349.3	6,603.1	137.2	137.3	-99.04	36.8	4,821.6	445.6	174.3	271.32	1.642	
11,400.0	6,532.2	11,449.3	6,602.2	140.0	140.1	-99.04	36.8	4,921.6	445.6	168.8	276.84	1.610	
11,500.0	6,531.3	11,549.3	6,601.3	142.8	142.9	-99.04	36.8	5,021.6	445.6	163.3	282.36	1.578	
11,600.0	6,530.4	11,649.3	6,600.4	145.6	145.7	-99.04	36.8	5,121.6	445.6	157.7	287.88	1.548	
11,700.0	6,529.5	11,749.3	6,599.5	148.4	148.5	-99.04	36.8	5,221.6	445.6	152.2	293.41	1.519	
11,800.0	6,528.6	11,849.3	6,598.6	151.2	151.3	-99.04	36.8	5,321.6	445.6	146.7	298.93	1.491 Level 3	
11,900.0	6,527.7	11,949.3	6,597.7	154.0	154.1	-99.04	36.8	5,421.6	445.6	141.2	304.46	1.464 Level 3	
12,000.0	6,526.8	12,049.3	6,596.8	156.8	156.9	-99.04	36.8	5,521.6	445.6	135.6	309.99	1.438 Level 3	
12,100.0	6,525.9	12,149.3	6,595.9	159.6	159.7	-99.04	36.8	5,621.6	445.6	130.1	315.52	1.412 Level 3	
12,200.0	6,525.0	12,249.3	6,595.0	162.4	162.5	-99.04	36.8	5,721.6	445.6	124.6	321.04	1.388 Level 3	
12,300.0	6,524.1	12,349.3	6,594.0	165.2	165.3	-99.04	36.8	5,821.6	445.6	119.0	326.57	1.365 Level 3	
12,400.0	6,523.2	12,449.3	6,593.1	168.0	168.1	-99.04	36.8	5,921.6	445.6	113.5	332.11	1.342 Level 3	
12,500.0	6,522.3	12,549.3	6,592.2	170.8	170.9	-99.04	36.8	6,021.6	445.6	108.0	337.64	1.320 Level 3	
12,600.0	6,521.3	12,649.3	6,591.3	173.6	173.7	-99.04	36.8	6,121.6	445.6	102.4	343.17	1.299 Level 3	
12,700.0	6,520.4	12,749.3	6,590.4	176.4	176.5	-99.04	36.8	6,221.6	445.6	96.9	348.70	1.278 Level 3	
12,800.0	6,519.5	12,849.3	6,589.5	179.2	179.3	-99.04	36.7	6,321.6	445.6	91.4	354.24	1.258 Level 3	
12,900.0	6,518.6	12,949.3	6,588.6	182.0	182.1	-99.04	36.7	6,421.6	445.6	85.8	359.77	1.239 Level 2	
13,000.0	6,517.7	13,049.3	6,587.7	184.8	184.9	-99.04	36.7	6,521.6	445.6	80.3	365.30	1.220 Level 2	
13,100.0	6,516.8	13,149.3	6,586.8	187.6	187.7	-99.04	36.7	6,621.6	445.6	74.8	370.84	1.202 Level 2	
13,200.0	6,515.9	13,249.3	6,585.9	190.4	190.5	-99.04	36.7	6,721.6	445.6	69.2	376.37	1.184 Level 2	
13,300.0	6,515.0	13,349.3	6,585.0	193.2	193.3	-99.04	36.7	6,821.6	445.6	63.7	381.91	1.167 Level 2	
13,400.0	6,514.1	13,449.3	6,584.1	196.0	196.1	-99.04	36.7	6,921.6	445.6	58.2	387.45	1.150 Level 2	

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference														
Offset														
Semi Major Axis														
Distance														
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
13,500.0	6,513.2	13,549.3	6,583.2	198.8	198.9	-99.04	36.7	7,021.6	445.6	52.6	392.98	1.134	Level 2	
13,600.0	6,512.3	13,649.3	6,582.2	201.6	201.7	-99.04	36.7	7,121.6	445.6	47.1	398.52	1.118	Level 2	
13,613.4	6,512.1	13,662.7	6,582.1	201.9	202.0	-99.04	36.7	7,134.9	445.6	46.4	399.26	1.116	Level 2	
13,629.7	6,512.0	13,676.6	6,582.0	202.4	202.4	-99.04	36.7	7,148.8	445.6	45.5	400.10	1.114	Level 2, SF	



<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference														
Offset				Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-144.31	-12.0	-8.6	14.8	14.8	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	-144.31	-12.0	-8.6	14.8	14.6	0.23	65.209		
200.0	200.0	201.0	201.0	0.3	0.3	-144.31	-12.0	-8.6	14.8	14.1	0.68	21.881		
300.0	300.0	301.0	301.0	0.6	0.6	-144.31	-12.0	-8.6	14.8	13.7	1.13	13.146		
400.0	400.0	401.0	401.0	0.8	0.8	-144.31	-12.0	-8.6	14.8	13.2	1.58	9.395		
500.0	500.0	501.0	501.0	1.0	1.0	-144.31	-12.0	-8.6	14.8	12.8	2.03	7.310		
600.0	600.0	601.0	601.0	1.2	1.2	-144.31	-12.0	-8.6	14.8	12.3	2.47	5.982		
700.0	700.0	701.0	701.0	1.5	1.5	-144.31	-12.0	-8.6	14.8	11.9	2.92	5.062		
800.0	800.0	801.0	801.0	1.7	1.7	-144.31	-12.0	-8.6	14.8	11.4	3.37	4.388		
900.0	900.0	901.0	901.0	1.9	1.9	-144.31	-12.0	-8.6	14.8	11.0	3.82	3.872		
966.3	966.3	967.3	967.3	2.1	2.1	-144.31	-12.0	-8.6	14.8	10.7	4.12	3.592 CC		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	-144.31	-12.0	-8.6	14.8	10.5	4.27	3.465		
1,100.0	1,100.0	1,100.6	1,100.6	2.4	2.3	-145.82	-13.3	-9.0	16.1	11.4	4.69	3.424		
1,200.0	1,200.0	1,200.0	1,199.9	2.6	2.5	-149.14	-17.0	-10.2	19.9	14.8	5.10	3.898		
1,300.0	1,300.0	1,299.3	1,299.0	2.8	2.7	-152.53	-23.2	-12.1	26.3	20.7	5.51	4.768		
1,400.0	1,400.0	1,398.1	1,397.4	3.0	2.9	-155.19	-31.8	-14.7	35.3	29.3	5.92	5.952		
1,500.0	1,500.0	1,496.5	1,495.1	3.2	3.1	-4.04	-42.8	-18.1	45.6	39.3	6.31	7.218		
1,600.0	1,599.9	1,594.7	1,592.3	3.4	3.4	-5.74	-56.2	-22.2	55.9	49.2	6.69	8.356		
1,700.0	1,699.7	1,692.6	1,688.8	3.6	3.6	-7.29	-71.9	-27.0	66.2	59.1	7.07	9.362		
1,800.0	1,799.3	1,791.9	1,786.4	3.8	4.0	-8.74	-89.3	-32.3	75.5	68.0	7.46	10.118		
1,900.0	1,898.6	1,891.6	1,884.5	4.0	4.3	-10.19	-106.7	-37.7	82.3	74.4	7.86	10.466		
1,949.8	1,947.9	1,941.4	1,933.4	4.1	4.5	-10.95	-115.5	-40.4	84.8	76.7	8.06	10.508		
2,000.0	1,997.6	1,991.5	1,982.7	4.2	4.6	-11.73	-124.2	-43.1	86.9	78.6	8.28	10.494		
2,100.0	2,096.6	2,091.4	2,080.9	4.5	5.0	-13.16	-141.7	-48.4	91.3	82.5	8.72	10.462		
2,200.0	2,195.5	2,191.3	2,179.0	4.8	5.3	-14.46	-159.2	-53.8	95.7	86.5	9.17	10.428		
2,300.0	2,294.5	2,291.2	2,277.2	5.0	5.7	-15.64	-176.7	-59.2	100.1	90.5	9.63	10.392		
2,400.0	2,393.4	2,391.0	2,375.4	5.3	6.1	-16.73	-194.2	-64.5	104.6	94.5	10.10	10.354		
2,500.0	2,492.4	2,490.9	2,473.6	5.6	6.5	-17.72	-211.7	-69.9	109.1	98.5	10.58	10.313		
2,600.0	2,591.4	2,590.8	2,571.8	5.9	6.9	-18.64	-229.2	-75.3	113.7	102.6	11.07	10.272		
2,700.0	2,690.3	2,690.7	2,670.0	6.2	7.3	-19.48	-246.7	-80.6	118.3	106.7	11.56	10.230		
2,800.0	2,789.3	2,790.6	2,768.2	6.5	7.7	-20.26	-264.2	-86.0	122.9	110.8	12.06	10.188		
2,900.0	2,888.3	2,890.4	2,866.4	6.9	8.1	-20.99	-281.7	-91.4	127.5	114.9	12.57	10.146		
3,000.0	2,987.2	2,990.3	2,964.6	7.2	8.4	-21.66	-299.2	-96.8	132.1	119.1	13.08	10.104		
3,100.0	3,086.2	3,090.2	3,062.8	7.5	8.8	-22.29	-316.7	-102.1	136.8	123.2	13.59	10.062		
3,200.0	3,185.2	3,190.1	3,160.9	7.8	9.3	-22.88	-334.2	-107.5	141.5	127.4	14.12	10.021		
3,300.0	3,284.1	3,290.0	3,259.1	8.2	9.7	-23.43	-351.7	-112.9	146.2	131.5	14.64	9.981		
3,400.0	3,383.1	3,389.8	3,357.3	8.5	10.1	-23.94	-369.2	-118.2	150.9	135.7	15.17	9.942		
3,500.0	3,482.1	3,489.7	3,455.5	8.8	10.5	-24.42	-386.7	-123.6	155.6	139.9	15.71	9.903		
3,600.0	3,581.0	3,589.6	3,553.7	9.2	10.9	-24.88	-404.2	-129.0	160.3	144.1	16.25	9.866		
3,700.0	3,680.0	3,689.5	3,651.9	9.5	11.3	-25.31	-421.7	-134.3	165.0	148.2	16.79	9.829		
3,800.0	3,779.0	3,789.4	3,750.1	9.8	11.7	-25.71	-439.2	-139.7	169.8	152.4	17.34	9.794		
3,900.0	3,877.9	3,889.2	3,848.3	10.2	12.1	-26.10	-456.7	-145.1	174.5	156.6	17.88	9.759		
4,000.0	3,976.9	3,989.1	3,946.5	10.5	12.5	-26.46	-474.2	-150.4	179.3	160.9	18.43	9.726		
4,100.0	4,075.9	4,089.0	4,044.6	10.9	12.9	-26.80	-491.7	-155.8	184.1	165.1	18.99	9.693		
4,200.0	4,174.8	4,188.9	4,142.8	11.2	13.3	-27.13	-509.2	-161.2	188.8	169.3	19.54	9.662		
4,300.0	4,273.8	4,288.8	4,241.0	11.6	13.7	-27.44	-526.7	-166.5	193.6	173.5	20.10	9.631		
4,400.0	4,372.8	4,388.6	4,339.2	11.9	14.1	-27.74	-544.2	-171.9	198.4	177.7	20.66	9.602		
4,500.0	4,471.7	4,488.5	4,437.4	12.3	14.6	-28.02	-561.7	-177.3	203.2	181.9	21.22	9.573		
4,600.0	4,570.7	4,588.4	4,535.6	12.6	15.0	-28.29	-579.2	-182.6	208.0	186.2	21.79	9.545		
4,618.5	4,589.0	4,606.9	4,553.8	12.7	15.0	-28.34	-582.4	-183.6	208.8	187.0	21.89	9.540		
4,700.0	4,669.8	4,688.2	4,633.7	12.9	15.4	-28.44	-596.7	-188.0	213.8	191.4	22.32	9.577		

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-302 - Wellbore #1 - Plan #1 (11-2-15)											Offset Site Error:		0.0 ft
Survey Program:		0-MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
4,800.0	4,769.3	4,787.8	4,731.6	13.1	15.8	-28.21	-614.1	-193.4	222.6	199.8	22.77	9.777			
4,900.0	4,869.1	4,891.7	4,833.9	13.3	16.2	-27.63	-631.7	-198.8	234.0	210.8	23.14	10.109			
5,000.0	4,969.1	4,999.7	4,940.7	13.5	16.5	-26.94	-646.6	-203.3	245.2	221.8	23.44	10.460			
5,030.9	5,000.0	5,033.1	4,973.9	13.6	16.5	-179.88	-650.4	-204.5	248.6	219.4	29.25	8.500			
5,100.0	5,069.1	5,108.2	5,048.6	13.7	16.7	-179.39	-657.7	-206.7	255.3	225.7	29.56	8.634			
5,200.0	5,169.1	5,217.4	5,157.6	13.8	16.9	-178.92	-664.8	-208.9	261.9	231.9	29.96	8.741			
5,300.0	5,269.1	5,327.1	5,267.2	14.0	17.1	-178.72	-668.0	-209.9	264.8	234.5	30.31	8.738			
5,400.0	5,369.1	5,430.0	5,370.1	14.1	17.2	-178.71	-668.2	-210.0	265.0	234.4	30.61	8.657			
5,500.0	5,469.1	5,530.0	5,470.1	14.3	17.3	-178.71	-668.2	-210.0	265.0	234.1	30.90	8.577			
5,600.0	5,569.1	5,630.0	5,570.1	14.4	17.5	-178.71	-668.2	-210.0	265.0	233.8	31.19	8.496			
5,700.0	5,669.1	5,730.0	5,670.1	14.6	17.6	-178.71	-668.2	-210.0	265.0	233.5	31.48	8.417			
5,800.0	5,769.1	5,830.0	5,770.1	14.8	17.7	-178.71	-668.2	-210.0	265.0	233.2	31.78	8.337			
5,838.8	5,807.8	5,868.8	5,808.8	14.8	17.8	-178.71	-668.2	-210.0	265.0	233.1	31.90	8.307			
5,850.0	5,819.1	5,880.0	5,820.1	14.9	17.8	91.31	-668.2	-210.0	265.0	238.5	26.48	10.005			
5,900.0	5,869.0	5,929.9	5,870.0	14.9	17.9	91.81	-668.2	-210.0	265.1	238.4	26.61	9.961			
5,950.0	5,918.7	5,980.4	5,920.4	15.0	17.9	92.77	-668.2	-208.8	265.2	238.6	26.68	9.941			
6,000.0	5,967.9	6,031.2	5,971.0	15.0	18.0	93.73	-668.2	-204.3	265.5	238.8	26.73	9.932			
6,050.0	6,016.4	6,082.3	6,021.5	15.1	18.0	94.68	-668.2	-196.4	265.8	239.0	26.77	9.931			
6,100.0	6,064.0	6,133.7	6,071.6	15.1	18.1	95.60	-668.2	-185.0	266.2	239.4	26.79	9.935			
6,150.0	6,110.5	6,185.4	6,121.2	15.1	18.1	96.50	-668.2	-170.2	266.6	239.8	26.82	9.942			
6,200.0	6,155.8	6,237.5	6,169.9	15.2	18.1	97.37	-668.2	-152.0	267.1	240.3	26.86	9.946			
6,250.0	6,199.5	6,289.8	6,217.6	15.2	18.1	98.21	-668.2	-130.3	267.7	240.8	26.92	9.943			
6,300.0	6,241.6	6,342.4	6,263.9	15.2	18.2	99.01	-668.2	-105.3	268.3	241.2	27.02	9.928			
6,350.0	6,281.8	6,395.3	6,308.6	15.2	18.2	99.77	-668.2	-77.0	268.8	241.7	27.17	9.894			
6,400.0	6,319.9	6,448.5	6,351.4	15.2	18.2	100.49	-668.2	-45.5	269.4	242.0	27.40	9.835			
6,450.0	6,355.9	6,502.0	6,392.2	15.3	18.2	101.16	-668.2	-11.0	270.0	242.3	27.72	9.743			
6,500.0	6,389.6	6,555.7	6,430.6	15.3	18.3	101.78	-668.2	26.6	270.6	242.5	28.16	9.611			
6,550.0	6,420.7	6,609.6	6,466.4	15.4	18.3	102.34	-668.2	66.9	271.2	242.5	28.72	9.443			
6,600.0	6,449.2	6,663.8	6,499.4	15.5	18.4	102.85	-668.2	109.7	271.7	242.3	29.44	9.230			
6,650.0	6,475.0	6,718.1	6,529.4	15.9	18.5	103.29	-668.2	155.0	272.2	241.9	30.32	8.978			
6,700.0	6,497.9	6,772.6	6,556.2	16.4	18.7	103.68	-668.2	202.5	272.7	241.3	31.38	8.690			
6,750.0	6,517.9	6,827.2	6,579.6	17.1	18.9	104.01	-668.2	251.9	273.0	240.4	32.60	8.375			
6,800.0	6,534.8	6,882.0	6,599.4	17.8	19.3	104.27	-668.2	302.9	273.4	239.4	33.99	8.041			
6,850.0	6,548.6	6,936.9	6,615.6	18.7	19.9	104.46	-668.2	355.3	273.6	238.0	35.55	7.697			
6,900.0	6,559.2	6,991.8	6,627.9	19.6	20.7	104.59	-668.2	408.8	273.7	236.5	37.25	7.350			
6,950.0	6,566.6	7,046.8	6,636.4	20.5	21.6	104.66	-668.2	463.1	273.8	234.8	39.08	7.008			
7,000.0	6,570.8	7,101.8	6,641.0	21.6	22.6	104.65	-668.2	517.9	273.8	232.8	41.02	6.676			
7,045.7	6,571.8	7,151.4	6,641.8	22.5	23.6	104.60	-668.2	567.5	273.8	230.9	42.86	6.387			
7,100.0	6,571.3	7,205.7	6,641.3	23.7	24.7	104.60	-668.2	621.8	273.8	228.6	45.13	6.066			
7,200.0	6,570.4	7,305.7	6,640.4	25.9	26.9	104.60	-668.2	721.8	273.8	224.2	49.51	5.530			
7,300.0	6,569.4	7,405.7	6,639.5	28.3	29.1	104.60	-668.2	821.8	273.8	219.7	54.08	5.062			
7,400.0	6,568.5	7,505.7	6,638.5	30.7	31.5	104.60	-668.2	921.8	273.8	215.0	58.80	4.656			
7,500.0	6,567.6	7,605.7	6,637.6	33.2	33.9	104.60	-668.2	1,021.8	273.8	210.1	63.64	4.302			
7,600.0	6,566.7	7,705.7	6,636.7	35.7	36.4	104.60	-668.2	1,121.8	273.8	205.2	68.57	3.992			
7,700.0	6,565.8	7,805.7	6,635.8	38.3	39.0	104.60	-668.2	1,221.8	273.7	200.2	73.58	3.721			
7,800.0	6,564.9	7,905.7	6,634.9	40.9	41.5	104.60	-668.2	1,321.8	273.7	195.1	78.64	3.481			
7,900.0	6,564.0	8,005.7	6,634.0	43.5	44.1	104.60	-668.2	1,421.8	273.7	190.0	83.76	3.268			
8,000.0	6,563.1	8,105.7	6,633.1	46.2	46.7	104.60	-668.2	1,521.8	273.7	184.8	88.91	3.079			
8,100.0	6,562.2	8,205.7	6,632.2	48.8	49.4	104.60	-668.2	1,621.8	273.7	179.6	94.10	2.909			
8,200.0	6,561.3	8,305.7	6,631.3	51.5	52.0	104.60	-668.2	1,721.8	273.7	174.4	99.31	2.756			
8,300.0	6,560.4	8,405.7	6,630.4	54.2	54.7	104.60	-668.2	1,821.8	273.7	169.2	104.56	2.618			

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-302 - Wellbore #1 - Plan #1 (11-2-15)										Offset Site Error:		0.0 ft
Survey Program: 0-MWD												Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
8,400.0	6,559.5	8,505.7	6,629.5	56.9	57.4	104.60	-668.2	1,921.8	273.7	163.9	109.82	2.493		
8,500.0	6,558.6	8,605.7	6,628.6	59.6	60.1	104.60	-668.2	2,021.7	273.7	158.6	115.10	2.378		
8,600.0	6,557.6	8,705.7	6,627.7	62.4	62.8	104.60	-668.2	2,121.7	273.7	153.4	120.39	2.274		
8,700.0	6,556.7	8,805.7	6,626.7	65.1	65.5	104.60	-668.2	2,221.7	273.7	148.0	125.70	2.178		
8,800.0	6,555.8	8,905.7	6,625.8	67.8	68.3	104.60	-668.2	2,321.7	273.7	142.7	131.02	2.089		
8,900.0	6,554.9	9,005.7	6,624.9	70.6	71.0	104.60	-668.2	2,421.7	273.7	137.4	136.35	2.008		
9,000.0	6,554.0	9,105.7	6,624.0	73.3	73.7	104.60	-668.2	2,521.7	273.7	132.0	141.69	1.932		
9,100.0	6,553.1	9,205.7	6,623.1	76.1	76.5	104.60	-668.2	2,621.7	273.7	126.7	147.04	1.862		
9,200.0	6,552.2	9,305.7	6,622.2	78.8	79.2	104.60	-668.2	2,721.7	273.7	121.3	152.39	1.796		
9,300.0	6,551.3	9,405.7	6,621.3	81.6	82.0	104.60	-668.2	2,821.7	273.7	116.0	157.76	1.735		
9,400.0	6,550.4	9,505.7	6,620.4	84.3	84.7	104.60	-668.2	2,921.7	273.7	110.6	163.13	1.678		
9,500.0	6,549.5	9,605.7	6,619.5	87.1	87.5	104.60	-668.2	3,021.7	273.7	105.2	168.50	1.625		
9,600.0	6,548.6	9,705.7	6,618.6	89.9	90.2	104.60	-668.2	3,121.7	273.7	99.9	173.88	1.574		
9,700.0	6,547.7	9,805.7	6,617.7	92.6	93.0	104.60	-668.2	3,221.7	273.7	94.5	179.26	1.527		
9,800.0	6,546.8	9,905.7	6,616.8	95.4	95.8	104.60	-668.2	3,321.7	273.7	89.1	184.65	1.482 Level 3		
9,900.0	6,545.8	10,005.7	6,615.9	98.2	98.5	104.60	-668.2	3,421.7	273.7	83.7	190.04	1.440 Level 3		
10,000.0	6,544.9	10,105.7	6,614.9	101.0	101.3	104.60	-668.2	3,521.7	273.7	78.3	195.44	1.401 Level 3		
10,100.0	6,544.0	10,205.7	6,614.0	103.8	104.1	104.60	-668.2	3,621.7	273.7	72.9	200.84	1.363 Level 3		
10,200.0	6,543.1	10,305.7	6,613.1	106.5	106.9	104.60	-668.2	3,721.7	273.7	67.5	206.24	1.327 Level 3		
10,300.0	6,542.2	10,405.7	6,612.2	109.3	109.6	104.60	-668.2	3,821.7	273.7	62.1	211.64	1.293 Level 3		
10,400.0	6,541.3	10,505.7	6,611.3	112.1	112.4	104.60	-668.2	3,921.7	273.7	56.7	217.05	1.261 Level 3		
10,500.0	6,540.4	10,605.7	6,610.4	114.9	115.2	104.60	-668.2	4,021.7	273.7	51.3	222.45	1.230 Level 2		
10,600.0	6,539.5	10,705.7	6,609.5	117.7	118.0	104.60	-668.2	4,121.7	273.7	45.9	227.87	1.201 Level 2		
10,700.0	6,538.6	10,805.7	6,608.6	120.5	120.8	104.60	-668.2	4,221.7	273.7	40.4	233.28	1.173 Level 2		
10,800.0	6,537.7	10,905.7	6,607.7	123.2	123.6	104.60	-668.2	4,321.7	273.7	35.0	238.69	1.147 Level 2		
10,900.0	6,536.8	11,005.7	6,606.8	126.0	126.3	104.60	-668.2	4,421.7	273.7	29.6	244.11	1.121 Level 2		
11,000.0	6,535.9	11,105.7	6,605.9	128.8	129.1	104.60	-668.2	4,521.6	273.7	24.2	249.53	1.097 Level 2		
11,100.0	6,535.0	11,205.7	6,605.0	131.6	131.9	104.60	-668.2	4,621.6	273.7	18.8	254.95	1.074 Level 2		
11,200.0	6,534.1	11,305.7	6,604.1	134.4	134.7	104.60	-668.2	4,721.6	273.7	13.4	260.37	1.051 Level 2		
11,300.0	6,533.1	11,405.7	6,603.1	137.2	137.5	104.60	-668.2	4,821.6	273.7	7.9	265.79	1.030 Level 2		
11,400.0	6,532.2	11,505.7	6,602.2	140.0	140.3	104.60	-668.2	4,921.6	273.7	2.5	271.21	1.009 Level 2		
11,500.0	6,531.3	11,605.7	6,601.3	142.8	143.1	104.60	-668.2	5,021.6	273.7	-2.9	276.64	0.989 Level 1		
11,600.0	6,530.4	11,705.7	6,600.4	145.6	145.9	104.60	-668.2	5,121.6	273.7	-8.3	282.06	0.970 Level 1		
11,700.0	6,529.5	11,805.7	6,599.5	148.4	148.7	104.60	-668.2	5,221.6	273.7	-13.8	287.49	0.952 Level 1		
11,800.0	6,528.6	11,905.7	6,598.6	151.2	151.5	104.60	-668.2	5,321.6	273.7	-19.2	292.92	0.934 Level 1		
11,900.0	6,527.7	12,005.7	6,597.7	154.0	154.2	104.60	-668.2	5,421.6	273.7	-24.6	298.35	0.917 Level 1		
12,000.0	6,526.8	12,105.7	6,596.8	156.8	157.0	104.60	-668.2	5,521.6	273.7	-30.1	303.78	0.901 Level 1		
12,100.0	6,525.9	12,205.7	6,595.9	159.6	159.8	104.60	-668.2	5,621.6	273.7	-35.5	309.21	0.885 Level 1		
12,200.0	6,525.0	12,305.7	6,595.0	162.4	162.6	104.60	-668.2	5,721.6	273.7	-40.9	314.64	0.870 Level 1		
12,300.0	6,524.1	12,405.7	6,594.1	165.2	165.4	104.60	-668.2	5,821.6	273.7	-46.4	320.07	0.855 Level 1		
12,400.0	6,523.2	12,505.7	6,593.2	168.0	168.2	104.60	-668.2	5,921.6	273.7	-51.8	325.50	0.841 Level 1		
12,500.0	6,522.3	12,605.7	6,592.3	170.8	171.0	104.60	-668.2	6,021.6	273.7	-57.2	330.94	0.827 Level 1		
12,600.0	6,521.3	12,705.7	6,591.4	173.6	173.8	104.60	-668.2	6,121.6	273.7	-62.7	336.37	0.814 Level 1		
12,700.0	6,520.4	12,805.7	6,590.4	176.4	176.6	104.60	-668.2	6,221.6	273.7	-68.1	341.80	0.801 Level 1		
12,800.0	6,519.5	12,905.7	6,589.5	179.2	179.4	104.60	-668.2	6,321.6	273.7	-73.5	347.24	0.788 Level 1		
12,900.0	6,518.6	13,005.7	6,588.6	182.0	182.2	104.60	-668.2	6,421.6	273.7	-79.0	352.67	0.776 Level 1		
13,000.0	6,517.7	13,105.7	6,587.7	184.8	185.0	104.60	-668.2	6,521.6	273.7	-84.4	358.11	0.764 Level 1		
13,100.0	6,516.8	13,205.7	6,586.8	187.6	187.8	104.60	-668.2	6,621.6	273.7	-89.8	363.55	0.753 Level 1		
13,200.0	6,515.9	13,305.7	6,585.9	190.4	190.6	104.60	-668.2	6,721.6	273.7	-95.3	368.99	0.742 Level 1		
13,300.0	6,515.0	13,405.7	6,585.0	193.2	193.4	104.60	-668.2	6,821.6	273.7	-100.7	374.42	0.731 Level 1		
13,400.0	6,514.1	13,505.7	6,584.1	196.0	196.2	104.60	-668.2	6,921.5	273.7	-106.2	379.86	0.721 Level 1		

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>													<b>Offset Site Error:</b>	0.0 ft
Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-302 - Wellbore #1 - Plan #1 (11-2-15)													<b>Offset Well Error:</b>	0.0 ft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
13,500.0	6,513.2	13,605.7	6,583.2	198.8	199.0	104.60	-668.2	7,021.5	273.7	-111.6	385.30	0.710	Level 1	
13,600.0	6,512.3	13,705.7	6,582.3	201.6	201.8	104.60	-668.2	7,121.5	273.7	-117.0	390.74	0.700	Level 1	
13,629.7	6,512.0	13,735.4	6,582.0	202.4	202.6	104.60	-668.2	7,151.2	273.7	-118.7	392.36	0.698	Level 1, ES, SF	

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-144.71	-24.4	-17.3	29.9	29.9	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	-144.71	-24.4	-17.3	29.9	29.7	0.23	131.724		
200.0	200.0	201.0	201.0	0.3	0.3	-144.71	-24.4	-17.3	29.9	29.2	0.68	44.200		
300.0	300.0	301.0	301.0	0.6	0.6	-144.71	-24.4	-17.3	29.9	28.8	1.13	26.555		
400.0	400.0	401.0	401.0	0.8	0.8	-144.71	-24.4	-17.3	29.9	28.3	1.58	18.979		
500.0	500.0	501.0	501.0	1.0	1.0	-144.71	-24.4	-17.3	29.9	27.9	2.03	14.766		
600.0	600.0	601.0	601.0	1.2	1.2	-144.71	-24.4	-17.3	29.9	27.4	2.47	12.084		
700.0	700.0	701.0	701.0	1.5	1.5	-144.71	-24.4	-17.3	29.9	27.0	2.92	10.226		
800.0	800.0	801.0	801.0	1.7	1.7	-144.71	-24.4	-17.3	29.9	26.5	3.37	8.863 CC, ES		
900.0	900.0	900.0	900.0	1.9	1.9	-145.66	-25.7	-17.5	31.1	27.3	3.79	8.197		
1,000.0	1,000.0	999.4	999.3	2.1	2.1	-148.12	-29.5	-18.3	34.7	30.5	4.20	8.273		
1,100.0	1,100.0	1,098.3	1,098.0	2.4	2.3	-151.24	-35.7	-19.6	40.9	36.3	4.61	8.866		
1,200.0	1,200.0	1,196.7	1,196.0	2.6	2.5	-154.28	-44.5	-21.4	49.6	44.6	5.03	9.860		
1,300.0	1,300.0	1,294.7	1,293.3	2.8	2.7	-156.90	-55.6	-23.7	60.9	55.5	5.46	11.162		
1,400.0	1,400.0	1,392.0	1,389.6	3.0	2.9	-159.01	-69.1	-26.5	74.9	69.0	5.90	12.696		
1,500.0	1,500.0	1,488.7	1,485.0	3.2	3.2	-7.59	-84.9	-29.8	90.1	83.8	6.30	14.307		
1,600.0	1,599.9	1,585.1	1,579.6	3.4	3.5	-9.17	-102.9	-33.5	105.3	98.6	6.68	15.749		
1,700.0	1,699.7	1,681.0	1,673.3	3.6	3.9	-10.65	-123.3	-37.7	120.5	113.4	7.08	17.009		
1,800.0	1,799.3	1,780.0	1,769.6	3.8	4.3	-12.08	-145.4	-42.3	134.4	126.9	7.50	17.930		
1,900.0	1,898.6	1,879.3	1,866.3	4.0	4.7	-13.48	-167.5	-46.8	145.9	138.0	7.91	18.434		
1,949.8	1,947.9	1,928.9	1,914.6	4.1	4.9	-14.19	-178.6	-49.1	150.7	142.6	8.13	18.540		
2,000.0	1,997.6	1,978.8	1,963.2	4.2	5.2	-14.91	-189.8	-51.4	155.3	146.9	8.36	18.584		
2,100.0	2,096.6	2,078.3	2,060.1	4.5	5.6	-16.21	-212.0	-56.0	164.4	155.6	8.81	18.654		
2,200.0	2,195.5	2,177.8	2,156.9	4.8	6.0	-17.38	-234.2	-60.6	173.6	164.4	9.28	18.704		
2,300.0	2,294.5	2,277.3	2,253.8	5.0	6.5	-18.43	-256.5	-65.2	182.9	173.2	9.76	18.738		
2,400.0	2,393.4	2,376.8	2,350.7	5.3	7.0	-19.38	-278.7	-69.8	192.3	182.0	10.25	18.757		
2,500.0	2,492.4	2,476.3	2,447.6	5.6	7.4	-20.24	-300.9	-74.4	201.7	190.9	10.75	18.764		
2,600.0	2,591.4	2,575.9	2,544.5	5.9	7.9	-21.03	-323.2	-79.0	211.1	199.8	11.25	18.762		
2,700.0	2,690.3	2,675.4	2,641.4	6.2	8.4	-21.75	-345.4	-83.6	220.6	208.8	11.76	18.751		
2,800.0	2,789.3	2,774.9	2,738.3	6.5	8.8	-22.40	-367.6	-88.2	230.1	217.8	12.28	18.735		
2,900.0	2,888.3	2,874.4	2,835.2	6.9	9.3	-23.01	-389.9	-92.7	239.6	226.8	12.80	18.713		
3,000.0	2,987.2	2,973.9	2,932.1	7.2	9.8	-23.57	-412.1	-97.3	249.1	235.8	13.33	18.687		
3,100.0	3,086.2	3,073.4	3,029.0	7.5	10.3	-24.09	-434.4	-101.9	258.7	244.8	13.87	18.658		
3,200.0	3,185.2	3,173.0	3,125.8	7.8	10.7	-24.57	-456.6	-106.5	268.3	253.9	14.40	18.627		
3,300.0	3,284.1	3,272.5	3,222.7	8.2	11.2	-25.02	-478.8	-111.1	277.9	263.0	14.95	18.594		
3,400.0	3,383.1	3,372.0	3,319.6	8.5	11.7	-25.44	-501.1	-115.7	287.5	272.0	15.49	18.560		
3,500.0	3,482.1	3,471.5	3,416.5	8.8	12.2	-25.83	-523.3	-120.3	297.2	281.1	16.04	18.524		
3,600.0	3,581.0	3,571.0	3,513.4	9.2	12.6	-26.19	-545.5	-124.9	306.8	290.2	16.59	18.489		
3,700.0	3,680.0	3,670.5	3,610.3	9.5	13.1	-26.54	-567.8	-129.5	316.5	299.3	17.15	18.453		
3,800.0	3,779.0	3,770.0	3,707.2	9.8	13.6	-26.86	-590.0	-134.1	326.2	308.4	17.71	18.417		
3,900.0	3,877.9	3,869.6	3,804.1	10.2	14.1	-27.17	-612.2	-138.7	335.8	317.6	18.27	18.381		
4,000.0	3,976.9	3,969.1	3,901.0	10.5	14.6	-27.45	-634.5	-143.2	345.5	326.7	18.83	18.346		
4,100.0	4,075.9	4,068.6	3,997.9	10.9	15.1	-27.73	-656.7	-147.8	355.2	335.8	19.40	18.311		
4,200.0	4,174.8	4,168.1	4,094.7	11.2	15.5	-27.98	-678.9	-152.4	364.9	345.0	19.97	18.276		
4,300.0	4,273.8	4,267.6	4,191.6	11.6	16.0	-28.23	-701.2	-157.0	374.7	354.1	20.54	18.243		
4,400.0	4,372.8	4,367.1	4,288.5	11.9	16.5	-28.46	-723.4	-161.6	384.4	363.3	21.11	18.209		
4,500.0	4,471.7	4,466.6	4,385.4	12.3	17.0	-28.68	-745.6	-166.2	394.1	372.4	21.68	18.177		
4,600.0	4,570.7	4,566.2	4,482.3	12.6	17.5	-28.89	-767.9	-170.8	403.8	381.6	22.26	18.145		
4,618.5	4,589.0	4,584.6	4,500.3	12.7	17.6	-28.93	-772.0	-171.6	405.6	383.3	22.36	18.139		
4,700.0	4,669.8	4,665.6	4,579.1	12.9	18.0	-29.10	-790.1	-175.4	414.6	391.8	22.80	18.184		
4,800.0	4,769.3	4,764.6	4,675.5	13.1	18.4	-29.12	-812.2	-179.9	428.3	405.0	23.27	18.410		

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.0	4,869.1	4,863.2	4,771.5	13.3	18.9	-28.97	-834.2	-184.5	445.0	421.4	23.68	18.797		
5,000.0	4,969.1	4,961.1	4,866.8	13.5	19.4	-28.65	-856.1	-189.0	464.8	440.8	24.03	19.339		
5,030.9	5,000.0	4,991.2	4,896.2	13.6	19.6	178.31	-862.8	-190.4	471.5	439.3	32.23	14.630		
5,100.0	5,069.1	5,058.5	4,961.7	13.7	19.9	178.73	-877.9	-193.5	486.9	454.2	32.70	14.888		
5,200.0	5,169.1	5,158.0	5,058.6	13.8	20.4	179.32	-900.1	-198.1	509.2	475.8	33.38	15.254		
5,300.0	5,269.1	5,277.1	5,175.1	14.0	20.8	179.89	-923.8	-203.0	529.1	495.1	33.99	15.568		
5,400.0	5,369.1	5,398.0	5,294.4	14.1	21.1	-179.69	-943.0	-207.0	545.0	510.5	34.52	15.791		
5,500.0	5,469.1	5,520.3	5,415.9	14.3	21.4	-179.39	-957.5	-209.9	556.9	521.9	34.98	15.918		
5,600.0	5,569.1	5,643.8	5,538.9	14.4	21.6	-179.20	-966.9	-211.9	564.5	529.1	35.39	15.952		
5,700.0	5,669.1	5,767.8	5,662.8	14.6	21.8	-179.12	-971.1	-212.8	567.9	532.1	35.74	15.889		
5,800.0	5,769.1	5,875.0	5,770.1	14.8	21.9	-179.11	-971.3	-212.8	568.1	532.0	36.04	15.762		
5,838.8	5,807.8	5,913.8	5,808.8	14.8	22.0	-179.11	-971.3	-212.8	568.1	531.9	36.15	15.715		
5,850.0	5,819.1	5,925.0	5,820.1	14.9	22.0	90.90	-971.3	-212.8	568.1	540.7	27.37	20.757		
5,900.0	5,869.0	5,975.0	5,870.0	14.9	22.0	91.13	-971.3	-212.8	568.1	540.6	27.50	20.656		
5,950.0	5,918.7	6,024.6	5,919.7	15.0	22.1	91.68	-971.3	-212.8	568.3	540.7	27.59	20.594		
6,000.0	5,967.9	6,074.2	5,969.3	15.0	22.1	92.54	-971.3	-212.7	568.6	540.9	27.64	20.569		
6,050.0	6,016.4	6,125.3	6,020.3	15.1	22.2	93.50	-971.3	-210.3	569.1	541.4	27.67	20.565		
6,100.0	6,064.0	6,177.1	6,071.7	15.1	22.2	94.45	-971.3	-204.3	569.8	542.1	27.69	20.574		
6,150.0	6,110.5	6,229.6	6,123.3	15.1	22.3	95.39	-971.3	-194.8	570.6	542.9	27.71	20.590		
6,200.0	6,155.8	6,282.8	6,174.9	15.2	22.3	96.31	-971.3	-181.5	571.6	543.9	27.74	20.606		
6,250.0	6,199.5	6,336.8	6,226.1	15.2	22.3	97.21	-971.3	-164.4	572.7	544.9	27.78	20.615		
6,300.0	6,241.6	6,391.6	6,276.7	15.2	22.3	98.08	-971.3	-143.3	573.9	546.0	27.85	20.606		
6,350.0	6,281.8	6,447.1	6,326.3	15.2	22.4	98.91	-971.3	-118.4	575.1	547.2	27.96	20.567		
6,400.0	6,319.9	6,503.4	6,374.6	15.2	22.4	99.71	-971.3	-89.5	576.5	548.3	28.14	20.485		
6,450.0	6,355.9	6,560.5	6,421.2	15.3	22.4	100.46	-971.3	-56.6	577.8	549.4	28.40	20.345		
6,500.0	6,389.6	6,618.3	6,465.8	15.3	22.4	101.17	-971.3	-19.9	579.2	550.4	28.77	20.134		
6,550.0	6,420.7	6,676.8	6,508.0	15.4	22.5	101.83	-971.3	20.5	580.5	551.3	29.26	19.843		
6,600.0	6,449.2	6,735.9	6,547.4	15.5	22.5	102.43	-971.3	64.7	581.8	551.9	29.88	19.473		
6,650.0	6,475.0	6,795.7	6,583.6	15.9	22.6	102.97	-971.3	112.2	583.0	552.4	30.68	19.006		
6,700.0	6,497.9	6,856.0	6,616.3	16.4	22.7	103.44	-971.3	162.9	584.1	552.5	31.66	18.452		
6,750.0	6,517.9	6,916.9	6,645.1	17.1	22.8	103.85	-971.3	216.5	585.1	552.3	32.83	17.823		
6,800.0	6,534.8	6,978.2	6,669.7	17.8	23.1	104.19	-971.3	272.6	585.9	551.7	34.19	17.138		
6,850.0	6,548.6	7,039.8	6,689.9	18.7	23.4	104.45	-971.3	330.9	586.6	550.9	35.73	16.417		
6,900.0	6,559.2	7,101.8	6,705.3	19.6	23.8	104.63	-971.3	390.8	587.1	549.6	37.44	15.679		
6,950.0	6,566.6	7,163.9	6,715.9	20.5	24.4	104.74	-971.3	452.0	587.3	548.0	39.32	14.938		
7,000.0	6,570.8	7,226.0	6,721.4	21.6	25.2	104.77	-971.3	513.9	587.4	546.1	41.32	14.216		
7,043.4	6,571.8	7,277.7	6,722.2	22.5	25.9	104.74	-971.3	565.5	587.3	544.2	43.10	13.628		
7,045.7	6,571.8	7,280.0	6,722.2	22.5	26.0	104.74	-971.3	567.8	587.3	544.2	43.18	13.601		
7,100.0	6,571.3	7,334.3	6,721.9	23.7	26.9	104.76	-971.3	622.1	587.4	541.9	45.44	12.926		
7,200.0	6,570.4	7,434.3	6,721.3	25.9	28.7	104.79	-971.3	722.1	587.5	537.7	49.77	11.803		
7,300.0	6,569.4	7,534.3	6,720.7	28.3	30.8	104.81	-971.3	822.1	587.5	533.2	54.30	10.821		
7,400.0	6,568.5	7,634.3	6,720.1	30.7	33.0	104.84	-971.3	922.1	587.6	528.6	58.98	9.963		
7,500.0	6,567.6	7,734.3	6,719.5	33.2	35.3	104.87	-971.3	1,022.1	587.7	523.9	63.78	9.214		
7,600.0	6,566.7	7,834.3	6,718.8	35.7	37.7	104.90	-971.3	1,122.1	587.8	519.1	68.68	8.558		
7,700.0	6,565.8	7,934.3	6,718.2	38.3	40.1	104.93	-971.3	1,222.1	587.8	514.2	73.65	7.982		
7,800.0	6,564.9	8,034.3	6,717.6	40.9	42.6	104.95	-971.3	1,322.1	587.9	509.2	78.68	7.472		
7,900.0	6,564.0	8,134.3	6,717.0	43.5	45.1	104.98	-971.3	1,422.1	588.0	504.2	83.76	7.020		
8,000.0	6,563.1	8,234.3	6,716.4	46.2	47.7	105.01	-971.3	1,522.1	588.1	499.2	88.88	6.616		
8,100.0	6,562.2	8,334.3	6,715.8	48.8	50.3	105.04	-971.3	1,622.1	588.1	494.1	94.04	6.254		
8,200.0	6,561.3	8,434.3	6,715.2	51.5	52.9	105.07	-971.3	1,722.1	588.2	489.0	99.22	5.928		
8,300.0	6,560.4	8,534.3	6,714.6	54.2	55.5	105.09	-971.3	1,822.1	588.3	483.9	104.43	5.633		

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	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		
8,400.0	6,559.5	8,634.3	6,714.0	56.9	58.2	105.12	-971.3	1,922.1	588.4	478.7	109.66	5.366		
8,500.0	6,558.6	8,734.3	6,713.3	59.6	60.9	105.15	-971.3	2,022.1	588.4	473.5	114.90	5.121		
8,600.0	6,557.6	8,834.3	6,712.7	62.4	63.5	105.18	-971.3	2,122.1	588.5	468.4	120.16	4.898		
8,700.0	6,556.7	8,934.3	6,712.1	65.1	66.2	105.21	-971.3	2,222.1	588.6	463.2	125.44	4.692		
8,800.0	6,555.8	9,034.3	6,711.5	67.8	68.9	105.23	-971.3	2,322.1	588.7	458.0	130.72	4.503		
8,900.0	6,554.9	9,134.3	6,710.9	70.6	71.6	105.26	-971.3	2,422.1	588.8	452.7	136.01	4.329		
9,000.0	6,554.0	9,234.3	6,710.3	73.3	74.4	105.29	-971.3	2,522.1	588.8	447.5	141.32	4.167		
9,100.0	6,553.1	9,334.3	6,709.7	76.1	77.1	105.32	-971.3	2,622.0	588.9	442.3	146.62	4.016		
9,200.0	6,552.2	9,434.3	6,709.1	78.8	79.8	105.35	-971.3	2,722.0	589.0	437.0	151.94	3.876		
9,300.0	6,551.3	9,534.3	6,708.5	81.6	82.5	105.37	-971.3	2,822.0	589.1	431.8	157.26	3.746		
9,400.0	6,550.4	9,634.3	6,707.8	84.3	85.3	105.40	-971.3	2,922.0	589.1	426.6	162.59	3.624		
9,500.0	6,549.5	9,734.3	6,707.2	87.1	88.0	105.43	-971.3	3,022.0	589.2	421.3	167.92	3.509		
9,600.0	6,548.6	9,834.3	6,706.6	89.9	90.8	105.46	-971.3	3,122.0	589.3	416.0	173.25	3.401		
9,700.0	6,547.7	9,934.3	6,706.0	92.6	93.5	105.48	-971.3	3,222.0	589.4	410.8	178.59	3.300		
9,800.0	6,546.8	10,034.3	6,705.4	95.4	96.3	105.51	-971.3	3,322.0	589.5	405.5	183.93	3.205		
9,900.0	6,545.8	10,134.2	6,704.8	98.2	99.0	105.54	-971.3	3,422.0	589.5	400.3	189.27	3.115		
10,000.0	6,544.9	10,234.2	6,704.2	101.0	101.8	105.57	-971.3	3,522.0	589.6	395.0	194.62	3.030		
10,100.0	6,544.0	10,334.2	6,703.6	103.8	104.6	105.60	-971.3	3,622.0	589.7	389.7	199.97	2.949		
10,200.0	6,543.1	10,434.2	6,703.0	106.5	107.3	105.62	-971.3	3,722.0	589.8	384.5	205.32	2.873		
10,300.0	6,542.2	10,534.2	6,702.3	109.3	110.1	105.65	-971.3	3,822.0	589.9	379.2	210.67	2.800		
10,400.0	6,541.3	10,634.2	6,701.7	112.1	112.9	105.68	-971.3	3,922.0	589.9	373.9	216.02	2.731		
10,500.0	6,540.4	10,734.2	6,701.1	114.9	115.6	105.71	-971.3	4,022.0	590.0	368.6	221.37	2.665		
10,600.0	6,539.5	10,834.2	6,700.5	117.7	118.4	105.73	-971.3	4,122.0	590.1	363.4	226.72	2.603		
10,700.0	6,538.6	10,934.2	6,699.9	120.5	121.2	105.76	-971.3	4,222.0	590.2	358.1	232.08	2.543		
10,800.0	6,537.7	11,034.2	6,699.3	123.2	124.0	105.79	-971.3	4,322.0	590.3	352.8	237.43	2.486		
10,900.0	6,536.8	11,134.2	6,698.7	126.0	126.7	105.82	-971.3	4,422.0	590.3	347.5	242.79	2.431		
11,000.0	6,535.9	11,234.2	6,698.1	128.8	129.5	105.85	-971.3	4,522.0	590.4	342.3	248.14	2.379		
11,100.0	6,535.0	11,334.2	6,697.5	131.6	132.3	105.87	-971.3	4,622.0	590.5	337.0	253.50	2.329		
11,200.0	6,534.1	11,434.2	6,696.9	134.4	135.1	105.90	-971.3	4,722.0	590.6	331.7	258.85	2.281		
11,300.0	6,533.1	11,534.2	6,696.2	137.2	137.9	105.93	-971.3	4,822.0	590.7	326.4	264.21	2.236		
11,400.0	6,532.2	11,634.2	6,695.6	140.0	140.7	105.96	-971.3	4,922.0	590.7	321.2	269.57	2.191		
11,500.0	6,531.3	11,734.2	6,695.0	142.8	143.4	105.98	-971.3	5,022.0	590.8	315.9	274.92	2.149		
11,600.0	6,530.4	11,834.2	6,694.4	145.6	146.2	106.01	-971.3	5,122.0	590.9	310.6	280.28	2.108		
11,700.0	6,529.5	11,934.2	6,693.8	148.4	149.0	106.04	-971.3	5,222.0	591.0	305.4	285.63	2.069		
11,800.0	6,528.6	12,034.2	6,693.2	151.2	151.8	106.07	-971.3	5,322.0	591.1	300.1	290.99	2.031		
11,900.0	6,527.7	12,134.2	6,692.6	154.0	154.6	106.09	-971.3	5,422.0	591.1	294.8	296.34	1.995		
12,000.0	6,526.8	12,234.2	6,692.0	156.8	157.4	106.12	-971.3	5,522.0	591.2	289.5	301.69	1.960		
12,100.0	6,525.9	12,334.2	6,691.4	159.6	160.2	106.15	-971.3	5,622.0	591.3	284.3	307.05	1.926		
12,200.0	6,525.0	12,434.2	6,690.7	162.4	163.0	106.18	-971.3	5,722.0	591.4	279.0	312.40	1.893		
12,300.0	6,524.1	12,534.2	6,690.1	165.2	165.8	106.21	-971.3	5,822.0	591.5	273.7	317.75	1.861		
12,400.0	6,523.2	12,634.2	6,689.5	168.0	168.5	106.23	-971.3	5,922.0	591.6	268.5	323.10	1.831		
12,500.0	6,522.3	12,734.2	6,688.9	170.8	171.3	106.26	-971.3	6,022.0	591.6	263.2	328.45	1.801		
12,600.0	6,521.3	12,834.2	6,688.3	173.6	174.1	106.29	-971.3	6,122.0	591.7	257.9	333.80	1.773		
12,700.0	6,520.4	12,934.2	6,687.7	176.4	176.9	106.32	-971.3	6,222.0	591.8	252.7	339.15	1.745		
12,800.0	6,519.5	13,034.2	6,687.1	179.2	179.7	106.34	-971.3	6,322.0	591.9	247.4	344.50	1.718		
12,900.0	6,518.6	13,134.2	6,686.5	182.0	182.5	106.37	-971.3	6,422.0	592.0	242.1	349.84	1.692		
13,000.0	6,517.7	13,234.2	6,685.9	184.8	185.3	106.40	-971.3	6,522.0	592.1	236.9	355.19	1.667		
13,100.0	6,516.8	13,334.2	6,685.2	187.6	188.1	106.43	-971.3	6,622.0	592.1	231.6	360.53	1.642		
13,200.0	6,515.9	13,434.2	6,684.6	190.4	190.9	106.45	-971.3	6,722.0	592.2	226.3	365.88	1.619		
13,300.0	6,515.0	13,534.2	6,684.0	193.2	193.7	106.48	-971.3	6,822.0	592.3	221.1	371.22	1.596		
13,400.0	6,514.1	13,634.2	6,683.4	196.0	196.5	106.51	-971.3	6,921.9	592.4	215.8	376.56	1.573		

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



<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference														
Offset														
Semi Major Axis														
Distance														
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
13,500.0	6,513.2	13,734.2	6,682.8	198.8	199.3	106.54	-971.3	7,021.9	592.5	210.6	381.90	1.551		
13,600.0	6,512.3	13,834.2	6,682.2	201.6	202.1	106.56	-971.3	7,121.9	592.6	205.3	387.24	1.530		
13,629.7	6,512.0	13,863.9	6,682.0	202.4	202.9	106.57	-971.3	7,151.7	592.6	203.7	388.83	1.524 SF		



<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	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						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
7,300.0	6,569.4	6,552.4	6,552.4	28.3	131.0	-91.80	-140.9	1,730.5	946.4	787.4	159.08	5.950	
7,400.0	6,568.5	6,551.5	6,551.5	30.7	131.0	-91.60	-140.9	1,730.5	850.8	689.3	161.50	5.268	
7,500.0	6,567.6	6,550.6	6,550.6	33.2	131.0	-91.41	-140.9	1,730.5	756.3	592.3	163.99	4.612	
7,600.0	6,566.7	6,549.7	6,549.7	35.7	131.0	-91.21	-140.9	1,730.5	663.4	496.9	166.52	3.984	
7,700.0	6,565.8	6,548.8	6,548.8	38.3	131.0	-91.01	-140.9	1,730.5	573.0	403.9	169.09	3.389	
7,800.0	6,564.9	6,547.9	6,547.9	40.9	131.0	-90.81	-140.9	1,730.5	486.2	314.6	171.68	2.832	
7,900.0	6,564.0	6,547.0	6,547.0	43.5	130.9	-90.61	-140.9	1,730.5	405.7	231.4	174.30	2.327	
8,000.0	6,563.1	6,546.1	6,546.1	46.2	130.9	-90.41	-140.9	1,730.5	335.7	158.7	176.94	1.897	
8,100.0	6,562.2	6,545.2	6,545.2	48.8	130.9	-90.22	-140.9	1,730.5	284.3	104.7	179.60	1.583	
8,200.0	6,561.3	6,544.3	6,544.3	51.5	130.9	-90.02	-140.9	1,730.5	262.6	80.3	182.26	1.441	Level 3
8,209.4	6,561.2	6,544.2	6,544.2	51.8	130.9	-90.00	-140.9	1,730.5	262.4	79.9	182.51	1.438	Level 3, CC, ES, SF
8,300.0	6,560.4	6,543.4	6,543.4	54.2	130.9	-89.82	-140.9	1,730.5	277.6	92.6	184.94	1.501	
8,400.0	6,559.5	6,542.5	6,542.5	56.9	130.8	-89.62	-140.9	1,730.5	324.3	136.7	187.63	1.728	
8,500.0	6,558.6	6,541.6	6,541.6	59.6	130.8	-89.42	-140.9	1,730.5	391.5	201.2	190.32	2.057	
8,600.0	6,557.6	6,540.6	6,540.6	62.4	130.8	-89.23	-140.9	1,730.5	470.5	277.5	193.02	2.438	
8,700.0	6,556.7	6,539.7	6,539.7	65.1	130.8	-89.03	-140.9	1,730.5	556.4	360.6	195.72	2.843	
8,800.0	6,555.8	6,538.8	6,538.8	67.8	130.8	-88.83	-140.9	1,730.5	646.3	447.8	198.43	3.257	
8,900.0	6,554.9	6,537.9	6,537.9	70.6	130.8	-88.63	-140.9	1,730.5	738.8	537.6	201.14	3.673	
9,000.0	6,554.0	6,537.0	6,537.0	73.3	130.7	-88.43	-140.9	1,730.5	833.0	629.1	203.85	4.086	
9,100.0	6,553.1	6,536.1	6,536.1	76.1	130.7	-88.24	-140.9	1,730.5	928.4	721.9	206.56	4.495	

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	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	108.89	-139.2	406.8	430.1					
100.0	100.0	87.6	87.6	0.1	0.1	108.89	-139.2	406.7	429.9	429.6	0.23	1,880.144		
200.0	200.0	188.0	188.0	0.3	0.4	108.91	-139.2	406.5	429.7	429.0	0.70	611.579		
300.0	300.0	288.0	288.0	0.6	0.6	108.92	-139.3	406.3	429.5	428.3	1.19	360.457		
400.0	400.0	388.1	388.1	0.8	0.9	108.94	-139.3	406.0	429.2	427.5	1.68	255.424		
500.0	500.0	488.0	488.0	1.0	1.2	108.97	-139.5	405.7	429.0	426.8	2.17	197.899		
600.0	600.0	587.9	587.9	1.2	1.4	109.00	-139.6	405.4	428.8	426.1	2.65	161.502		
700.0	700.0	687.9	687.9	1.5	1.7	109.03	-139.8	405.1	428.6	425.4	3.14	136.444		
800.0	800.0	787.8	787.8	1.7	1.9	109.07	-140.0	404.8	428.4	424.7	3.62	118.259		
900.0	900.0	887.4	887.4	1.9	2.2	109.12	-140.3	404.6	428.2	424.1	4.09	104.605		
1,000.0	1,000.0	987.4	987.4	2.1	2.4	109.17	-140.6	404.4	428.1	423.6	4.56	93.800		
1,100.0	1,100.0	1,087.7	1,087.7	2.4	2.7	109.22	-140.9	404.2	428.0	423.0	5.04	84.871		
1,200.0	1,200.0	1,187.6	1,187.6	2.6	2.9	109.27	-141.2	403.9	427.9	422.3	5.53	77.421		
1,300.0	1,300.0	1,287.9	1,287.9	2.8	3.2	109.31	-141.4	403.6	427.7	421.7	6.01	71.111		
1,400.0	1,400.0	1,388.0	1,388.0	3.0	3.5	109.35	-141.6	403.3	427.4	420.9	6.50	65.744		
1,500.0	1,500.0	1,489.0	1,489.0	3.2	3.7	-97.66	-141.5	403.0	427.3	420.4	6.92	61.788		
1,600.0	1,599.9	1,590.6	1,590.6	3.4	3.8	-98.24	-141.0	402.5	427.2	419.9	7.25	58.890		
1,700.0	1,699.7	1,692.7	1,692.7	3.6	4.0	-99.21	-140.0	401.6	427.0	419.4	7.61	56.118		
1,745.2	1,744.7	1,738.3	1,738.2	3.7	4.1	-99.76	-139.5	401.0	427.0	419.2	7.78	54.858		
1,800.0	1,799.3	1,793.3	1,793.3	3.8	4.2	-100.52	-138.9	400.3	427.1	419.1	8.00	53.405		
1,900.0	1,898.6	1,895.1	1,895.0	4.0	4.4	-102.18	-137.7	398.6	427.5	419.0	8.42	50.770		
1,949.8	1,947.9	1,944.8	1,944.7	4.1	4.5	-103.11	-137.1	397.6	427.8	419.2	8.64	49.494		
2,000.0	1,997.6	1,994.7	1,994.6	4.2	4.7	-104.08	-136.5	396.5	428.4	419.5	8.88	48.261		
2,100.0	2,096.6	2,095.5	2,095.4	4.5	4.9	-105.96	-135.9	394.1	429.6	420.2	9.37	45.841		
2,200.0	2,195.5	2,194.0	2,193.9	4.8	5.2	-107.68	-136.1	391.3	431.0	421.1	9.89	43.600		
2,300.0	2,294.5	2,292.4	2,292.2	5.0	5.4	-109.34	-136.6	388.7	433.1	422.6	10.41	41.594		
2,400.0	2,393.4	2,390.5	2,390.2	5.3	5.7	-110.97	-137.2	386.3	435.7	424.7	10.94	39.814		
2,500.0	2,492.4	2,489.7	2,489.5	5.6	5.9	-112.59	-137.9	384.0	438.8	427.3	11.48	38.217		
2,600.0	2,591.4	2,589.1	2,588.8	5.9	6.2	-114.17	-138.7	381.6	442.2	430.1	12.02	36.777		
2,700.0	2,690.3	2,688.5	2,688.1	6.2	6.5	-115.72	-139.5	379.2	445.8	433.3	12.57	35.481		
2,800.0	2,789.3	2,786.7	2,786.4	6.5	6.7	-117.24	-140.3	376.9	449.9	436.8	13.11	34.326		
2,900.0	2,888.3	2,885.7	2,885.3	6.9	7.0	-118.74	-141.0	374.7	454.5	440.8	13.65	33.294		
3,000.0	2,987.2	2,984.8	2,984.4	7.2	7.2	-120.22	-141.8	372.6	459.4	445.2	14.19	32.364		
3,100.0	3,086.2	3,081.4	3,081.0	7.5	7.5	-121.65	-142.2	370.7	464.8	450.1	14.73	31.560		
3,200.0	3,185.2	3,179.9	3,179.4	7.8	7.8	-123.14	-142.2	369.1	471.0	455.7	15.26	30.861		
3,300.0	3,284.1	3,277.3	3,276.9	8.2	8.0	-124.53	-142.4	367.8	477.6	461.8	15.78	30.261		
3,400.0	3,383.1	3,376.0	3,375.6	8.5	8.2	-125.78	-143.7	366.9	484.8	468.5	16.29	29.767		
3,500.0	3,482.1	3,474.7	3,474.3	8.8	8.4	-126.93	-145.6	366.1	492.3	475.5	16.77	29.351		
3,600.0	3,581.0	3,574.3	3,573.8	9.2	8.6	-128.04	-147.5	365.4	500.0	482.7	17.25	28.978		
3,700.0	3,680.0	3,673.7	3,673.2	9.5	8.9	-129.10	-149.5	364.6	507.8	490.0	17.74	28.629		
3,800.0	3,779.0	3,772.0	3,771.5	9.8	9.1	-130.13	-151.5	363.9	515.8	497.6	18.22	28.315		
3,900.0	3,877.9	3,867.7	3,867.2	10.2	9.3	-131.14	-152.9	363.4	524.4	505.7	18.68	28.073		
4,000.0	3,976.9	3,964.2	3,963.7	10.5	9.4	-132.23	-153.2	363.4	533.9	514.8	19.08	27.973		
4,100.0	4,075.9	4,061.9	4,061.3	10.9	9.5	-133.38	-152.7	363.4	543.8	524.4	19.43	27.986		
4,200.0	4,174.8	4,160.3	4,159.7	11.2	9.6	-134.59	-151.3	363.3	554.2	534.4	19.77	28.031		
4,300.0	4,273.8	4,259.2	4,258.6	11.6	9.7	-135.77	-149.8	363.2	564.8	544.7	20.12	28.071		
4,400.0	4,372.8	4,355.1	4,354.5	11.9	9.8	-136.84	-148.6	363.3	575.8	555.3	20.45	28.157		
4,500.0	4,471.7	4,451.2	4,450.6	12.3	9.8	-137.70	-148.9	364.7	587.6	566.9	20.76	28.311		
4,600.0	4,570.7	4,551.0	4,550.4	12.6	9.9	-138.44	-150.1	366.7	599.7	578.6	21.07	28.460		
4,618.5	4,589.0	4,569.9	4,569.2	12.7	9.9	-138.57	-150.5	367.0	601.9	580.8	21.13	28.481		
4,700.0	4,669.8	4,653.2	4,652.6	12.9	10.0	-139.12	-152.5	368.7	610.6	589.2	21.42	28.509		

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1											Offset Site Error:		0.0 ft
Survey Program:		100-NS-GYRO-MS											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
4,800.0	4,769.3	4,756.3	4,755.5	13.1	10.1	-139.45	-156.1	370.7	618.5	596.7	21.76	28.423			
4,900.0	4,869.1	4,859.0	4,858.2	13.3	10.2	-139.54	-159.8	372.1	623.2	601.1	22.11	28.190			
5,000.0	4,969.1	4,964.0	4,963.1	13.5	10.4	-139.44	-163.0	372.7	624.7	602.2	22.46	27.809			
5,030.9	5,000.0	4,996.9	4,996.0	13.6	10.5	67.46	-163.9	372.6	624.4	601.4	22.98	27.169			
5,100.0	5,069.1	5,068.5	5,067.6	13.7	10.6	67.59	-165.7	372.1	623.3	600.0	23.26	26.800			
5,200.0	5,169.1	5,172.1	5,171.2	13.8	10.9	67.75	-168.2	370.7	621.1	597.4	23.66	26.247			
5,300.0	5,269.1	5,274.6	5,273.6	14.0	11.1	67.89	-170.6	368.7	618.5	594.4	24.08	25.681			
5,400.0	5,369.1	5,368.7	5,367.6	14.1	11.4	68.05	-173.1	367.2	615.9	591.5	24.47	25.170			
5,500.0	5,469.1	5,462.3	5,461.2	14.3	11.6	68.23	-175.4	366.8	614.6	589.8	24.84	24.747			
5,600.0	5,569.1	5,558.6	5,557.5	14.4	11.7	68.41	-177.3	367.1	614.2	589.0	25.19	24.385			
5,651.3	5,620.4	5,608.5	5,607.4	14.5	11.8	68.50	-178.2	367.4	614.1	588.7	25.36	24.215			
5,700.0	5,669.1	5,655.5	5,654.3	14.6	11.9	68.58	-179.0	367.8	614.2	588.7	25.51	24.072			
5,800.0	5,769.1	5,753.5	5,752.4	14.8	12.0	68.76	-180.6	368.9	614.7	588.8	25.83	23.798			
5,838.8	5,807.8	5,792.1	5,790.9	14.8	12.1	68.83	-181.2	369.4	614.9	589.0	25.95	23.697			
5,850.0	5,819.1	5,803.3	5,802.1	14.9	12.1	-21.15	-181.4	369.5	614.9	589.2	25.70	23.930			
5,900.0	5,869.0	5,852.9	5,851.7	14.9	12.2	-21.18	-182.3	370.2	613.0	587.3	25.73	23.824			
5,950.0	5,918.7	5,902.4	5,901.2	15.0	12.3	-21.41	-183.2	371.0	608.1	582.5	25.67	23.695			
6,000.0	5,967.9	5,951.6	5,950.4	15.0	12.3	-21.83	-184.1	371.7	600.2	574.7	25.50	23.538			
6,050.0	6,016.4	6,000.0	5,998.8	15.1	12.4	-22.46	-185.0	372.5	589.4	564.1	25.24	23.352			
6,100.0	6,064.0	6,047.8	6,046.6	15.1	12.5	-23.34	-186.0	373.2	575.6	550.7	24.89	23.126			
6,150.0	6,110.5	6,094.4	6,093.1	15.1	12.5	-24.49	-186.9	374.0	559.1	534.6	24.47	22.851			
6,200.0	6,155.8	6,140.1	6,138.8	15.2	12.6	-25.98	-187.8	374.7	539.8	515.8	23.99	22.505			
6,250.0	6,199.5	6,184.4	6,183.2	15.2	12.7	-27.84	-188.6	375.5	518.0	494.5	23.48	22.059			
6,300.0	6,241.6	6,226.7	6,225.4	15.2	12.7	-30.15	-189.5	376.2	493.8	470.8	23.00	21.471			
6,350.0	6,281.8	6,267.0	6,265.7	15.2	12.8	-32.99	-190.3	376.8	467.4	444.9	22.60	20.688			
6,400.0	6,319.9	6,305.3	6,304.0	15.2	12.9	-36.47	-191.0	377.5	439.2	416.8	22.36	19.642			
6,450.0	6,355.9	6,341.7	6,340.4	15.3	12.9	-40.72	-191.7	378.2	409.4	387.0	22.40	18.277			
6,500.0	6,389.6	6,375.9	6,374.6	15.3	13.0	-45.81	-192.3	378.8	378.4	355.6	22.82	16.582			
6,550.0	6,420.7	6,407.6	6,406.3	15.4	13.0	-51.78	-193.0	379.5	346.7	323.0	23.68	14.640			
6,600.0	6,449.2	6,436.7	6,435.3	15.5	13.1	-58.52	-193.5	380.0	315.1	290.2	24.96	12.626			
6,650.0	6,475.0	6,463.1	6,461.7	15.9	13.1	-65.78	-193.9	380.5	284.6	258.1	26.49	10.743			
6,700.0	6,497.9	6,486.6	6,485.3	16.4	13.1	-73.09	-194.3	381.0	256.6	228.5	28.06	9.143			
6,750.0	6,517.9	6,507.3	6,505.9	17.1	13.2	-79.90	-194.6	381.4	232.9	203.4	29.47	7.903			
6,800.0	6,534.8	6,524.9	6,523.5	17.8	13.2	-85.67	-194.9	381.7	216.0	185.4	30.64	7.049			
6,850.0	6,548.6	6,539.4	6,538.0	18.7	13.2	-90.04	-195.1	382.0	208.4	176.8	31.64	6.588			
6,859.8	6,550.9	6,541.8	6,540.5	18.9	13.2	-90.72	-195.1	382.0	208.2	176.4	31.83	6.542 CC, ES			
6,900.0	6,559.2	6,550.7	6,549.3	19.6	13.2	-92.81	-195.2	382.2	211.9	179.3	32.57	6.506 SF			
6,950.0	6,566.6	6,558.8	6,557.5	20.5	13.2	-93.88	-195.3	382.3	226.3	192.8	33.53	6.749			
7,000.0	6,570.8	6,563.8	6,562.4	21.6	13.2	-93.20	-195.3	382.4	250.1	215.5	34.57	7.234			
7,045.7	6,571.8	6,565.5	6,564.1	22.5	13.2	-91.01	-195.4	382.4	278.0	242.5	35.53	7.825			
7,100.0	6,571.3	6,565.9	6,564.5	23.7	13.2	-91.12	-195.4	382.5	316.7	279.9	36.70	8.628			
7,200.0	6,570.4	6,566.7	6,565.3	25.9	13.2	-91.34	-195.4	382.5	397.5	358.6	38.96	10.203			
7,300.0	6,569.4	6,567.4	6,566.0	28.3	13.2	-91.55	-195.4	382.5	485.6	444.2	41.32	11.752			
7,400.0	6,568.5	6,568.2	6,566.8	30.7	13.2	-91.76	-195.4	382.5	577.5	533.8	43.75	13.200			
7,500.0	6,567.6	6,569.0	6,567.6	33.2	13.2	-91.97	-195.4	382.5	671.8	625.5	46.24	14.527			
7,600.0	6,566.7	6,569.7	6,568.3	35.7	13.2	-92.17	-195.4	382.5	767.5	718.7	48.78	15.733			
7,700.0	6,565.8	6,570.5	6,569.1	38.3	13.2	-92.38	-195.4	382.5	864.2	812.8	51.36	16.827			
7,800.0	6,564.9	6,571.2	6,569.8	40.9	13.2	-92.58	-195.4	382.5	961.5	907.6	53.96	17.819			

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	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	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)			
6,600.0	6,449.2	6,441.5	6,440.8	15.5	12.2	41.26	-819.1	1,024.4	972.9	951.0	21.87	44.476		
6,650.0	6,475.0	6,467.1	6,466.5	15.9	12.2	45.84	-819.0	1,024.4	934.2	911.5	22.67	41.206		
6,700.0	6,497.9	6,489.9	6,489.3	16.4	12.2	51.05	-818.9	1,024.3	894.5	870.6	23.91	37.414		
6,750.0	6,517.9	6,509.8	6,509.1	17.1	12.2	56.84	-818.8	1,024.3	854.1	828.6	25.52	33.474		
6,800.0	6,534.8	6,526.5	6,525.9	17.8	12.2	63.06	-818.7	1,024.2	813.2	785.9	27.35	29.739		
6,850.0	6,548.6	6,540.2	6,539.6	18.7	12.3	69.49	-818.6	1,024.2	772.3	743.0	29.21	26.439		
6,900.0	6,559.2	6,550.7	6,550.1	19.6	12.3	75.81	-818.5	1,024.1	731.5	700.6	30.93	23.649		
6,950.0	6,566.6	6,558.0	6,557.4	20.5	12.3	81.72	-818.5	1,024.1	691.3	658.9	32.41	21.333		
7,000.0	6,570.8	6,562.0	6,561.4	21.6	12.3	86.98	-818.5	1,024.1	652.2	618.5	33.61	19.401		
7,045.7	6,571.8	6,562.8	6,562.2	22.5	12.3	91.05	-818.5	1,024.1	617.6	583.1	34.53	17.886		
7,100.0	6,571.3	6,562.2	6,561.6	23.7	12.3	90.96	-818.5	1,024.1	578.6	542.9	35.70	16.204		
7,200.0	6,570.4	6,561.0	6,560.4	25.9	12.3	90.80	-818.5	1,024.1	514.0	476.0	37.97	13.538		
7,300.0	6,569.4	6,559.8	6,559.2	28.3	12.3	90.63	-818.5	1,024.1	462.1	421.8	40.33	11.460		
7,400.0	6,568.5	6,558.6	6,558.0	30.7	12.3	90.47	-818.5	1,024.1	427.8	385.0	42.76	10.003		
7,500.0	6,567.6	6,557.5	6,556.8	33.2	12.3	90.30	-818.5	1,024.1	415.2	370.0	45.26	9.174		
7,502.9	6,567.6	6,557.4	6,556.8	33.3	12.3	90.30	-818.5	1,024.1	415.2	369.9	45.33	9.159 CC, ES		
7,600.0	6,566.7	6,556.3	6,555.6	35.7	12.3	90.14	-818.5	1,024.1	426.4	378.6	47.80	8.920 SF		
7,700.0	6,565.8	6,555.1	6,554.4	38.3	12.3	89.98	-818.5	1,024.1	459.6	409.2	50.38	9.122		
7,800.0	6,564.9	6,553.9	6,553.3	40.9	12.3	89.81	-818.5	1,024.1	510.5	457.5	52.99	9.633		
7,900.0	6,564.0	6,552.7	6,552.1	43.5	12.3	89.65	-818.5	1,024.1	574.5	518.8	55.63	10.327		
8,000.0	6,563.1	6,551.5	6,550.9	46.2	12.3	89.49	-818.5	1,024.1	647.6	589.3	58.29	11.111		
8,100.0	6,562.2	6,550.3	6,549.7	48.8	12.3	89.32	-818.5	1,024.1	727.2	666.2	60.96	11.930		
8,200.0	6,561.3	6,549.2	6,548.5	51.5	12.3	89.16	-818.5	1,024.1	811.3	747.7	63.64	12.747		
8,300.0	6,560.4	6,548.0	6,547.3	54.2	12.3	89.00	-818.6	1,024.2	898.7	832.3	66.34	13.546		
8,400.0	6,559.5	6,546.8	6,546.1	56.9	12.3	88.83	-818.6	1,024.2	988.4	919.4	69.05	14.315		

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4610.0ft (RKB - 13')

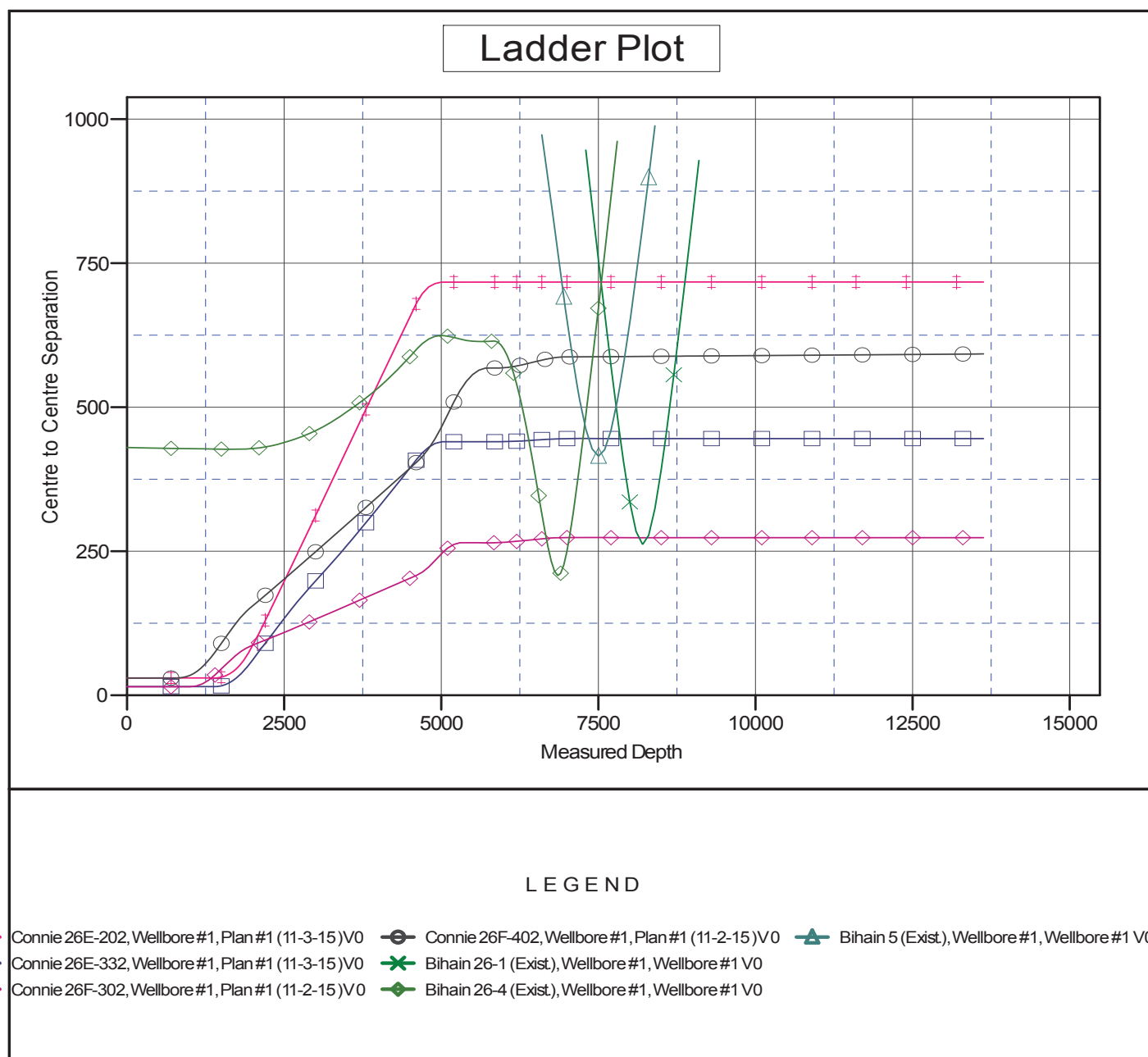
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: Connie 26F-212

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.63°



<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Connie 26F-212
<b>Project:</b>	SEC.26-T5N-R64W	<b>TVD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Reference Site:</b>	Connie 5N64W26EF Pad Sec.26-T5N-R64W	<b>MD Reference:</b>	WELL @ 4610.0ft (RKB - 13')
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Connie 26F-212	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #1 (11-3-15)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4610.0ft (RKB - 13')

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: Connie 26F-212

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