

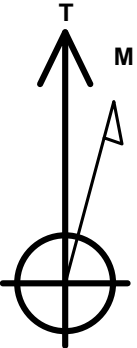
PETROLEUM DEVELOPMENT CORP DJ Basin

Well Name: **Connie 26E-202**

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 1381413.97 3271524.56 40.376287 -104.525404
RKB - 13' WELL @ 4610.0ft (RKB - 13')

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 490'FNL & 271'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 148'FNL & 2140'FWL,Sec.25	6512.0	289.2	7130.4	Point



Azimuths to True North
Magnetic North: 8.14°

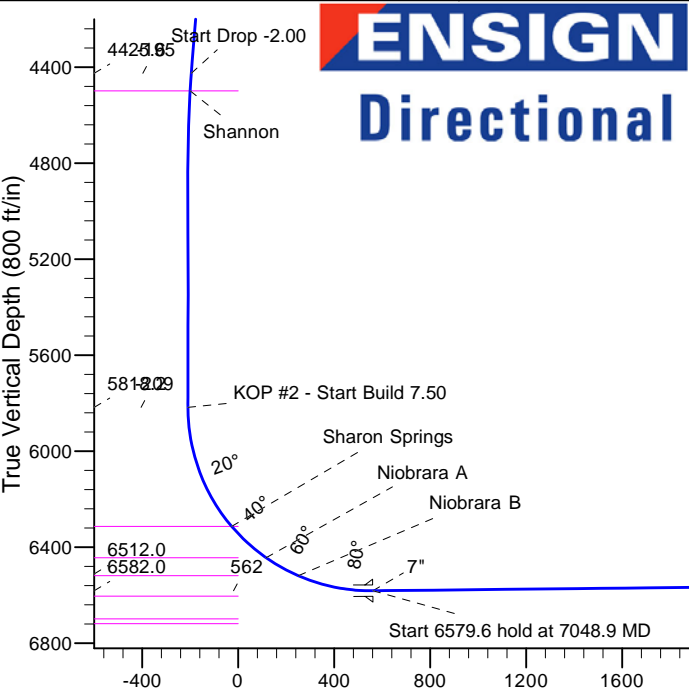
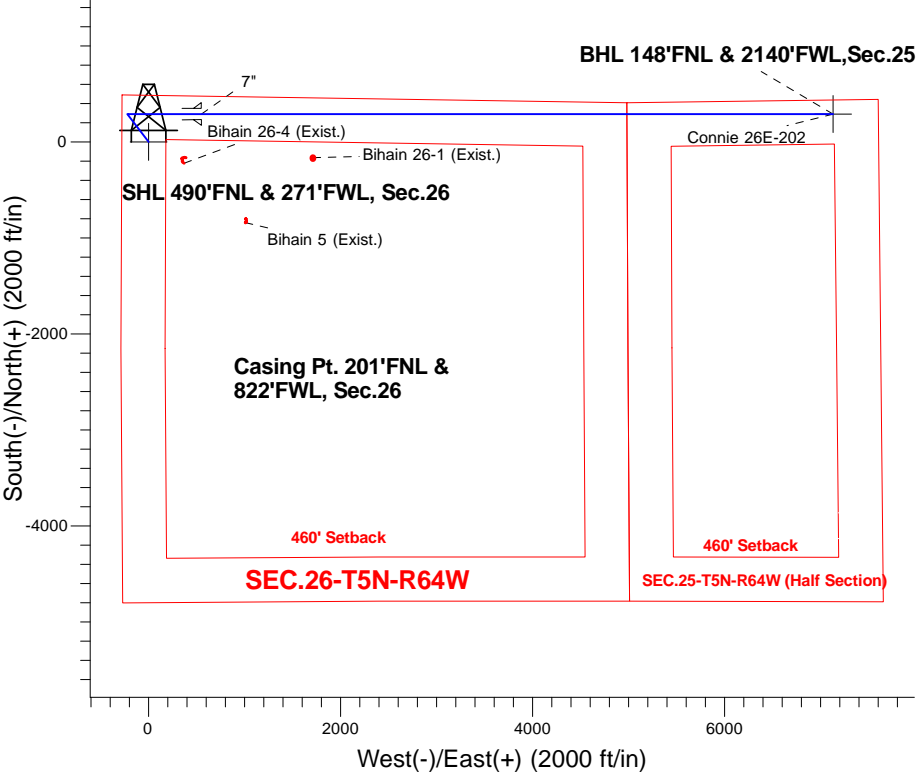
Magnetic Field
Strength: 52683.0snT
Dip Angle: 66.92°
Date: 11/4/2015
Model: IGRF2010

Connie 5N64W26EF Pad Sec.26-T5N-R64W
Connie 26E-202
Plan #1 (11-3-15)
12:00, November 05 2015

ANNOTATIONS

TVD	MD	Annotation
1600.0	1600.0	KOP - Start Build 1.50
4425.6	4447.2	Start Drop -2.00
5818.1	5840.8	KOP #2 - Start Build 7.50
6582.0	7048.9	Start 6579.6 hold at 7048.9 MD
6512.0	13628.6	TD at 13628.6

South(-)/North(+) (2000 ft/in)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1600.0	0.00	0.00	1600.0	0.0	0.0	0.00	0.00	0.0	
3	2100.6	7.51	322.61	2099.2	26.0	-19.9	1.50	322.61	-18.8	
4	4447.2	7.51	322.61	4425.6	269.7	-206.1	0.00	0.00	-195.0	
5	4822.6	0.00	0.00	4800.0	289.2	-221.0	2.00	180.00	-209.1	
6	5840.8	0.00	0.00	5818.1	289.2	-221.0	0.00	0.00	-209.1	
7	7048.9	90.61	90.00	6582.0	289.2	551.1	7.50	90.00	562.3	
8	13628.6	90.61	90.00	6512.0	289.2	7130.4	0.00	0.00	7136.2	BHL 148'FNL & 2140'FWL,Sec.25

BHL 148'FNL & 2140'FWL,Sec.25

Vertical Section at 87.68° (800 ft/in)



Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Connie 5N64W26EF Pad Sec.26-T5N-R64W

Connie 26E-202

Wellbore #1

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

Standard Planning Report

05 November, 2015

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26E-202
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 26E-202	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-3-15)		

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

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

Well	Connie 26E-202					
Well Position	+N/-S	49.2 ft	Northing:	1,381,413.97 usft	Latitude:	40.376287
	+E/-W	34.5 ft	Easting:	3,271,524.56 usft	Longitude:	-104.525404
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,597.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/4/2015	8.14	66.92	52,683

Design	Plan #1 (11-3-15)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	87.68

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,100.6	7.51	322.61	2,099.2	26.0	-19.9	1.50	1.50	0.00	322.61	
4,447.2	7.51	322.61	4,425.6	269.7	-206.1	0.00	0.00	0.00	0.00	
4,822.6	0.00	0.00	4,800.0	289.2	-221.0	2.00	-2.00	0.00	180.00	
5,840.8	0.00	0.00	5,818.1	289.2	-221.0	0.00	0.00	0.00	0.00	
7,048.9	90.61	90.00	6,582.0	289.2	551.1	7.50	7.50	0.00	90.00	
13,628.6	90.61	90.00	6,512.0	289.2	7,130.4	0.00	0.00	0.00	0.00	BHL 148°FNL & 2140'

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26E-202
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 26E-202	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 490'FNL & 271'FWL, Sec.26									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.50									
1,700.0	1.50	322.61	1,700.0	1.0	-0.8	-0.8	1.50	1.50	0.00
1,800.0	3.00	322.61	1,799.9	4.2	-3.2	-3.0	1.50	1.50	0.00
1,900.0	4.50	322.61	1,899.7	9.4	-7.1	-6.8	1.50	1.50	0.00
2,000.0	6.00	322.61	1,999.3	16.6	-12.7	-12.0	1.50	1.50	0.00
2,100.0	7.50	322.61	2,098.6	26.0	-19.8	-18.8	1.50	1.50	0.00
2,100.6	7.51	322.61	2,099.2	26.0	-19.9	-18.8	1.50	1.50	0.00
2,200.0	7.51	322.61	2,197.7	36.3	-27.8	-26.3	0.00	0.00	0.00
2,300.0	7.51	322.61	2,296.9	46.7	-35.7	-33.8	0.00	0.00	0.00
2,400.0	7.51	322.61	2,396.0	57.1	-43.6	-41.3	0.00	0.00	0.00
2,500.0	7.51	322.61	2,495.1	67.5	-51.6	-48.8	0.00	0.00	0.00
2,600.0	7.51	322.61	2,594.3	77.9	-59.5	-56.3	0.00	0.00	0.00
2,700.0	7.51	322.61	2,693.4	88.3	-67.4	-63.8	0.00	0.00	0.00
2,800.0	7.51	322.61	2,792.6	98.6	-75.4	-71.3	0.00	0.00	0.00
2,900.0	7.51	322.61	2,891.7	109.0	-83.3	-78.8	0.00	0.00	0.00
3,000.0	7.51	322.61	2,990.9	119.4	-91.3	-86.3	0.00	0.00	0.00
3,100.0	7.51	322.61	3,090.0	129.8	-99.2	-93.8	0.00	0.00	0.00
3,200.0	7.51	322.61	3,189.1	140.2	-107.1	-101.4	0.00	0.00	0.00
3,300.0	7.51	322.61	3,288.3	150.6	-115.1	-108.9	0.00	0.00	0.00
3,400.0	7.51	322.61	3,387.4	160.9	-123.0	-116.4	0.00	0.00	0.00
3,411.7	7.51	322.61	3,399.0	162.2	-123.9	-117.2	0.00	0.00	0.00
Parkman									
3,500.0	7.51	322.61	3,486.6	171.3	-130.9	-123.9	0.00	0.00	0.00
3,600.0	7.51	322.61	3,585.7	181.7	-138.9	-131.4	0.00	0.00	0.00
3,700.0	7.51	322.61	3,684.9	192.1	-146.8	-138.9	0.00	0.00	0.00
3,800.0	7.51	322.61	3,784.0	202.5	-154.7	-146.4	0.00	0.00	0.00
3,900.0	7.51	322.61	3,883.1	212.9	-162.7	-153.9	0.00	0.00	0.00
4,000.0	7.51	322.61	3,982.3	223.2	-170.6	-161.4	0.00	0.00	0.00
4,100.0	7.51	322.61	4,081.4	233.6	-178.5	-168.9	0.00	0.00	0.00
4,122.8	7.51	322.61	4,104.0	236.0	-180.3	-170.6	0.00	0.00	0.00
Sussex									
4,200.0	7.51	322.61	4,180.6	244.0	-186.5	-176.4	0.00	0.00	0.00
4,300.0	7.51	322.61	4,279.7	254.4	-194.4	-183.9	0.00	0.00	0.00
4,400.0	7.51	322.61	4,378.8	264.8	-202.3	-191.4	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26E-202
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 26E-202	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)
4,447.2	7.51	322.61	4,425.6	269.7	-206.1	-195.0	0.00	0.00	0.00
Start Drop -2.00									
4,500.0	6.45	322.61	4,478.1	274.8	-210.0	-198.7	2.00	-2.00	0.00
4,521.1	6.03	322.61	4,499.0	276.6	-211.4	-200.0	2.00	-2.00	0.00
Shannon									
4,600.0	4.45	322.61	4,577.6	282.3	-215.8	-204.1	2.00	-2.00	0.00
4,700.0	2.45	322.61	4,677.4	287.1	-219.4	-207.6	2.00	-2.00	0.00
4,800.0	0.45	322.61	4,777.4	289.1	-220.9	-209.0	2.00	-2.00	0.00
4,822.6	0.00	0.00	4,800.0	289.2	-221.0	-209.1	2.00	-2.00	0.00
4,900.0	0.00	0.00	4,877.4	289.2	-221.0	-209.1	0.00	0.00	0.00
5,000.0	0.00	0.00	4,977.4	289.2	-221.0	-209.1	0.00	0.00	0.00
5,100.0	0.00	0.00	5,077.4	289.2	-221.0	-209.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,177.4	289.2	-221.0	-209.1	0.00	0.00	0.00
5,300.0	0.00	0.00	5,277.4	289.2	-221.0	-209.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,377.4	289.2	-221.0	-209.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,477.4	289.2	-221.0	-209.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,577.4	289.2	-221.0	-209.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,677.4	289.2	-221.0	-209.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,777.4	289.2	-221.0	-209.1	0.00	0.00	0.00
5,840.8	0.00	0.00	5,818.2	289.2	-221.0	-209.1	0.00	0.00	0.00
KOP #2 - Start Build 7.50									
5,900.0	4.44	90.00	5,877.3	289.2	-218.7	-206.8	7.50	7.50	0.00
6,000.0	11.94	90.00	5,976.2	289.2	-204.5	-192.6	7.50	7.50	0.00
6,100.0	19.44	90.00	6,072.4	289.2	-177.4	-165.6	7.50	7.50	0.00
6,200.0	26.94	90.00	6,164.3	289.2	-138.1	-126.3	7.50	7.50	0.00
6,300.0	34.44	90.00	6,250.2	289.2	-87.1	-75.3	7.50	7.50	0.00
6,380.4	40.47	90.00	6,314.0	289.2	-38.2	-26.5	7.50	7.50	0.00
Sharon Springs									
6,400.0	41.94	90.00	6,328.7	289.2	-25.3	-13.6	7.50	7.50	0.00
6,500.0	49.44	90.00	6,398.6	289.2	46.2	57.9	7.50	7.50	0.00
6,574.2	55.01	90.00	6,444.0	289.2	104.9	116.5	7.50	7.50	0.00
Niobrara A									
6,600.0	56.94	90.00	6,458.4	289.2	126.2	137.8	7.50	7.50	0.00
6,700.0	64.44	90.00	6,507.3	289.2	213.4	224.9	7.50	7.50	0.00
6,728.1	66.55	90.00	6,519.0	289.2	238.9	250.5	7.50	7.50	0.00
Niobrara B									
6,800.0	71.94	90.00	6,544.5	289.2	306.1	317.6	7.50	7.50	0.00
6,900.0	79.44	90.00	6,569.2	289.2	403.0	414.4	7.50	7.50	0.00
7,000.0	86.94	90.00	6,581.0	289.2	502.2	513.5	7.50	7.50	0.00
7,048.9	90.61	90.00	6,582.0	289.2	551.1	562.3	7.50	7.50	0.00
Start 6579.6 hold at 7048.9 MD - 7"									
7,100.0	90.61	90.00	6,581.5	289.2	602.2	613.4	0.00	0.00	0.00
7,200.0	90.61	90.00	6,580.4	289.2	702.2	713.3	0.00	0.00	0.00
7,300.0	90.61	90.00	6,579.4	289.2	802.2	813.2	0.00	0.00	0.00
7,400.0	90.61	90.00	6,578.3	289.2	902.1	913.1	0.00	0.00	0.00
7,500.0	90.61	90.00	6,577.2	289.2	1,002.1	1,013.0	0.00	0.00	0.00
7,600.0	90.61	90.00	6,576.2	289.2	1,102.1	1,113.0	0.00	0.00	0.00
7,700.0	90.61	90.00	6,575.1	289.2	1,202.1	1,212.9	0.00	0.00	0.00
7,800.0	90.61	90.00	6,574.1	289.2	1,302.1	1,312.8	0.00	0.00	0.00
7,900.0	90.61	90.00	6,573.0	289.2	1,402.1	1,412.7	0.00	0.00	0.00
8,000.0	90.61	90.00	6,571.9	289.2	1,502.1	1,512.6	0.00	0.00	0.00
8,100.0	90.61	90.00	6,570.9	289.2	1,602.1	1,612.5	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26E-202
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 26E-202	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)
8,200.0	90.61	90.00	6,569.8	289.2	1,702.1	1,712.4	0.00	0.00	0.00
8,300.0	90.61	90.00	6,568.7	289.2	1,802.1	1,812.3	0.00	0.00	0.00
8,400.0	90.61	90.00	6,567.7	289.2	1,902.1	1,912.2	0.00	0.00	0.00
8,500.0	90.61	90.00	6,566.6	289.2	2,002.1	2,012.2	0.00	0.00	0.00
8,600.0	90.61	90.00	6,565.5	289.2	2,102.1	2,112.1	0.00	0.00	0.00
8,700.0	90.61	90.00	6,564.5	289.2	2,202.1	2,212.0	0.00	0.00	0.00
8,800.0	90.61	90.00	6,563.4	289.2	2,302.1	2,311.9	0.00	0.00	0.00
8,900.0	90.61	90.00	6,562.3	289.2	2,402.1	2,411.8	0.00	0.00	0.00
9,000.0	90.61	90.00	6,561.3	289.2	2,502.1	2,511.7	0.00	0.00	0.00
9,100.0	90.61	90.00	6,560.2	289.2	2,602.1	2,611.6	0.00	0.00	0.00
9,200.0	90.61	90.00	6,559.1	289.2	2,702.0	2,711.5	0.00	0.00	0.00
9,300.0	90.61	90.00	6,558.1	289.2	2,802.0	2,811.5	0.00	0.00	0.00
9,400.0	90.61	90.00	6,557.0	289.2	2,902.0	2,911.4	0.00	0.00	0.00
9,500.0	90.61	90.00	6,556.0	289.2	3,002.0	3,011.3	0.00	0.00	0.00
9,600.0	90.61	90.00	6,554.9	289.2	3,102.0	3,111.2	0.00	0.00	0.00
9,700.0	90.61	90.00	6,553.8	289.2	3,202.0	3,211.1	0.00	0.00	0.00
9,800.0	90.61	90.00	6,552.8	289.2	3,302.0	3,311.0	0.00	0.00	0.00
9,900.0	90.61	90.00	6,551.7	289.2	3,402.0	3,410.9	0.00	0.00	0.00
10,000.0	90.61	90.00	6,550.6	289.2	3,502.0	3,510.8	0.00	0.00	0.00
10,100.0	90.61	90.00	6,549.6	289.2	3,602.0	3,610.8	0.00	0.00	0.00
10,200.0	90.61	90.00	6,548.5	289.2	3,702.0	3,710.7	0.00	0.00	0.00
10,300.0	90.61	90.00	6,547.4	289.2	3,802.0	3,810.6	0.00	0.00	0.00
10,400.0	90.61	90.00	6,546.4	289.2	3,902.0	3,910.5	0.00	0.00	0.00
10,500.0	90.61	90.00	6,545.3	289.2	4,002.0	4,010.4	0.00	0.00	0.00
10,600.0	90.61	90.00	6,544.2	289.2	4,102.0	4,110.3	0.00	0.00	0.00
10,700.0	90.61	90.00	6,543.2	289.2	4,202.0	4,210.2	0.00	0.00	0.00
10,800.0	90.61	90.00	6,542.1	289.2	4,302.0	4,310.1	0.00	0.00	0.00
10,900.0	90.61	90.00	6,541.0	289.2	4,401.9	4,410.1	0.00	0.00	0.00
11,000.0	90.61	90.00	6,540.0	289.2	4,501.9	4,510.0	0.00	0.00	0.00
11,100.0	90.61	90.00	6,538.9	289.2	4,601.9	4,609.9	0.00	0.00	0.00
11,200.0	90.61	90.00	6,537.9	289.2	4,701.9	4,709.8	0.00	0.00	0.00
11,300.0	90.61	90.00	6,536.8	289.2	4,801.9	4,809.7	0.00	0.00	0.00
11,400.0	90.61	90.00	6,535.7	289.2	4,901.9	4,909.6	0.00	0.00	0.00
11,500.0	90.61	90.00	6,534.7	289.2	5,001.9	5,009.5	0.00	0.00	0.00
11,600.0	90.61	90.00	6,533.6	289.2	5,101.9	5,109.4	0.00	0.00	0.00
11,700.0	90.61	90.00	6,532.5	289.2	5,201.9	5,209.4	0.00	0.00	0.00
11,800.0	90.61	90.00	6,531.5	289.2	5,301.9	5,309.3	0.00	0.00	0.00
11,900.0	90.61	90.00	6,530.4	289.2	5,401.9	5,409.2	0.00	0.00	0.00
12,000.0	90.61	90.00	6,529.3	289.2	5,501.9	5,509.1	0.00	0.00	0.00
12,100.0	90.61	90.00	6,528.3	289.2	5,601.9	5,609.0	0.00	0.00	0.00
12,200.0	90.61	90.00	6,527.2	289.2	5,701.9	5,708.9	0.00	0.00	0.00
12,300.0	90.61	90.00	6,526.1	289.2	5,801.9	5,808.8	0.00	0.00	0.00
12,400.0	90.61	90.00	6,525.1	289.2	5,901.9	5,908.7	0.00	0.00	0.00
12,500.0	90.61	90.00	6,524.0	289.2	6,001.9	6,008.6	0.00	0.00	0.00
12,600.0	90.61	90.00	6,523.0	289.2	6,101.9	6,108.6	0.00	0.00	0.00
12,700.0	90.61	90.00	6,521.9	289.2	6,201.8	6,208.5	0.00	0.00	0.00
12,800.0	90.61	90.00	6,520.8	289.2	6,301.8	6,308.4	0.00	0.00	0.00
12,900.0	90.61	90.00	6,519.8	289.2	6,401.8	6,408.3	0.00	0.00	0.00
13,000.0	90.61	90.00	6,518.7	289.2	6,501.8	6,508.2	0.00	0.00	0.00
13,100.0	90.61	90.00	6,517.6	289.2	6,601.8	6,608.1	0.00	0.00	0.00
13,200.0	90.61	90.00	6,516.6	289.2	6,701.8	6,708.0	0.00	0.00	0.00
13,300.0	90.61	90.00	6,515.5	289.2	6,801.8	6,807.9	0.00	0.00	0.00
13,400.0	90.61	90.00	6,514.4	289.2	6,901.8	6,907.9	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Connie 26E-202
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 26E-202	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	90.61	90.00	6,513.4	289.2	7,001.8	7,007.8	0.00	0.00	0.00
13,600.0	90.61	90.00	6,512.3	289.2	7,101.8	7,107.7	0.00	0.00	0.00
13,628.6	90.61	90.00	6,512.0	289.2	7,130.4	7,136.2	0.00	0.00	0.00
TD at 13628.6 - BHL 148'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 490'FNL & 271'FWL - plan hits target center - Point	0.00	0.63	1.0	0.0	0.0	1,381,413.98	3,271,524.56	40.376287	-104.525404
BHL 148'FNL & 2140'FW - plan hits target center - Point	0.00	0.65	6,512.0	289.2	7,130.4	1,381,781.51	3,278,651.00	40.377078	-104.499812

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,048.9	6,582.0	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,411.7	3,399.0	Parkman		0.00	
4,122.8	4,104.0	Sussex		0.00	
4,521.1	4,499.0	Shannon		0.00	
6,380.4	6,314.0	Sharon Springs		0.00	
6,574.2	6,444.0	Niobrara A		0.00	
6,728.1	6,519.0	Niobrara B		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,600.0	1,600.0	0.0	0.0	KOP - Start Build 1.50
4,447.2	4,425.6	26.0	-19.9	Start Drop -2.00
5,840.8	5,818.1	269.7	-206.1	KOP #2 - Start Build 7.50
7,048.9	6,582.0	289.2	-221.0	Start 6579.6 hold at 7048.9 MD
13,628.6	6,512.0	289.2	-221.0	TD at 13628.6



Directional

PETROLEUM DEVELOPMENT CORP DJ Basin

SEC.26-T5N-R64W

Connie 5N64W26EF Pad Sec.26-T5N-R64W

Connie 26E-202

Wellbore #1

Plan #1 (11-3-15)

Anticollision Report

05 November, 2015



Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date 11/5/2015			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	13,628.6	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-332 - Wellbore #1 - Plan #1 (11-3-15)	1,600.0	1,600.0	15.1	8.1	2.167	CC
Connie 26E-332 - Wellbore #1 - Plan #1 (11-3-15)	13,628.6	13,674.8	285.9	-107.6	0.727	Level 1, ES, SF
Connie 26F-212 - Wellbore #1 - Plan #1 (11-3-15)	1,400.0	1,400.0	30.2	24.1	4.977	CC, ES
Connie 26F-212 - Wellbore #1 - Plan #1 (11-3-15)	13,628.6	13,630.5	717.3	312.7	1.773	SF
Connie 26F-302 - Wellbore #1 - Plan #1 (11-2-15)	966.3	967.3	45.0	40.9	10.919	CC
Connie 26F-302 - Wellbore #1 - Plan #1 (11-2-15)	1,000.0	1,001.0	45.0	40.7	10.533	ES
Connie 26F-302 - Wellbore #1 - Plan #1 (11-2-15)	13,628.6	13,732.4	984.6	580.8	2.438	SF
Existing Wells Pad Sec.26-T5N-R64W						
Bihain 26-1 (Exist.) - Wellbore #1 - Wellbore #1	8,211.1	6,552.7	454.9	272.1	2.488	CC, ES, SF
Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1	1,652.0	1,644.0	419.1	411.6	55.614	CC, ES
Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1	7,048.9	6,568.3	542.2	506.2	15.071	SF
Bihain 5 (Exist.) - Wellbore #1 - Wellbore #1						Out of range

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		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	-145.11	-12.4	-8.6	15.1	15.1	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	-145.11	-12.4	-8.6	15.1	14.9	0.22	67.184		
200.0	200.0	200.0	200.0	0.3	0.3	-145.11	-12.4	-8.6	15.1	14.4	0.67	22.395		
300.0	300.0	300.0	300.0	0.6	0.6	-145.11	-12.4	-8.6	15.1	14.0	1.12	13.437		
400.0	400.0	400.0	400.0	0.8	0.8	-145.11	-12.4	-8.6	15.1	13.5	1.57	9.598		
500.0	500.0	500.0	500.0	1.0	1.0	-145.11	-12.4	-8.6	15.1	13.1	2.02	7.465		
600.0	600.0	600.0	600.0	1.2	1.2	-145.11	-12.4	-8.6	15.1	12.6	2.47	6.108		
700.0	700.0	700.0	700.0	1.5	1.5	-145.11	-12.4	-8.6	15.1	12.2	2.92	5.168		
800.0	800.0	800.0	800.0	1.7	1.7	-145.11	-12.4	-8.6	15.1	11.7	3.37	4.479		
900.0	900.0	900.0	900.0	1.9	1.9	-145.11	-12.4	-8.6	15.1	11.3	3.82	3.952		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-145.11	-12.4	-8.6	15.1	10.8	4.27	3.536		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-145.11	-12.4	-8.6	15.1	10.4	4.72	3.199		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-145.11	-12.4	-8.6	15.1	9.9	5.17	2.921		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-145.11	-12.4	-8.6	15.1	9.5	5.62	2.687		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-145.11	-12.4	-8.6	15.1	9.0	6.07	2.488			
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-145.11	-12.4	-8.6	15.1	8.6	6.52	2.317			
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-145.11	-12.4	-8.6	15.1	8.1	6.97	2.167	CC		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-112.32	-12.4	-8.6	15.5	8.1	7.41	2.097			
1,800.0	1,799.9	1,799.9	1,799.9	3.9	3.9	-124.32	-12.4	-8.6	17.4	9.6	7.86	2.217			
1,900.0	1,899.7	1,899.7	1,899.7	4.2	4.2	-138.61	-12.4	-8.6	21.8	13.5	8.30	2.626			
2,000.0	1,999.3	1,999.3	1,999.3	4.4	4.4	-150.46	-12.4	-8.6	29.3	20.6	8.73	3.355			
2,100.6	2,099.2	2,099.2	2,099.2	4.6	4.6	-158.77	-12.4	-8.6	40.0	30.9	9.16	4.369			
2,200.0	2,197.7	2,197.7	2,197.7	4.9	4.8	-163.92	-12.4	-8.6	52.4	42.8	9.60	5.453			
2,300.0	2,296.9	2,296.9	2,296.9	5.1	5.1	-167.11	-12.4	-8.6	65.0	55.0	10.05	6.471			
2,400.0	2,396.0	2,396.0	2,396.0	5.4	5.3	-169.26	-12.4	-8.6	77.8	67.3	10.50	7.414			
2,500.0	2,495.1	2,495.1	2,495.1	5.7	5.5	-170.80	-12.4	-8.6	90.7	79.8	10.95	8.286			
2,600.0	2,594.3	2,595.3	2,595.3	6.0	5.7	-171.60	-12.3	-9.4	103.2	91.8	11.39	9.060			
2,700.0	2,693.4	2,695.7	2,695.7	6.3	5.9	-171.53	-12.0	-12.0	114.6	102.8	11.82	9.696			
2,800.0	2,792.6	2,796.4	2,796.3	6.5	6.1	-170.80	-11.5	-16.3	125.1	112.8	12.26	10.200			
2,900.0	2,891.7	2,897.2	2,896.9	6.8	6.3	-169.56	-10.8	-22.3	134.6	121.9	12.71	10.586			
3,000.0	2,990.9	2,998.1	2,997.4	7.1	6.6	-167.88	-9.9	-30.1	143.2	130.0	13.17	10.869			
3,100.0	3,090.0	3,098.8	3,097.7	7.4	6.8	-165.83	-8.8	-39.7	151.0	137.4	13.65	11.066			
3,200.0	3,189.1	3,198.4	3,196.8	7.7	7.0	-163.77	-7.6	-49.8	158.7	144.6	14.13	11.231			
3,300.0	3,288.3	3,297.9	3,295.8	8.0	7.2	-161.90	-6.4	-60.0	166.6	151.9	14.62	11.391			
3,400.0	3,387.4	3,397.5	3,394.8	8.4	7.5	-160.21	-5.3	-70.1	174.6	159.5	15.12	11.545			
3,500.0	3,486.6	3,497.0	3,493.8	8.7	7.7	-158.66	-4.1	-80.3	182.7	167.1	15.63	11.693			
3,600.0	3,585.7	3,596.6	3,592.9	9.0	8.0	-157.25	-2.9	-90.4	191.0	174.9	16.14	11.834			
3,700.0	3,684.9	3,696.1	3,691.9	9.3	8.2	-155.95	-1.7	-100.6	199.4	182.7	16.66	11.968			
3,800.0	3,784.0	3,795.7	3,790.9	9.6	8.5	-154.76	-0.6	-110.7	207.9	190.7	17.19	12.096			
3,900.0	3,883.1	3,895.2	3,889.9	9.9	8.7	-153.67	0.6	-120.9	216.5	198.7	17.72	12.217			
4,000.0	3,982.3	3,994.8	3,989.0	10.2	9.0	-152.65	1.8	-131.0	225.1	206.8	18.25	12.333			
4,100.0	4,081.4	4,094.3	4,088.0	10.5	9.2	-151.71	2.9	-141.1	233.8	215.0	18.79	12.442			
4,200.0	4,180.6	4,193.9	4,187.0	10.9	9.5	-150.84	4.1	-151.3	242.5	223.2	19.33	12.546			
4,300.0	4,279.7	4,293.4	4,286.0	11.2	9.8	-150.03	5.3	-161.4	251.4	231.5	19.88	12.645			
4,400.0	4,378.8	4,393.0	4,385.1	11.5	10.0	-149.28	6.5	-171.6	260.2	239.8	20.43	12.739			
4,447.2	4,425.6	4,440.0	4,431.8	11.6	10.2	-148.94	7.0	-176.4	264.4	243.7	20.69	12.781			
4,500.0	4,478.1	4,492.6	4,484.1	11.8	10.3	-148.56	7.6	-181.7	268.7	247.7	20.98	12.808			
4,600.0	4,577.6	4,592.3	4,583.3	12.0	10.6	-147.57	8.8	-191.9	274.6	253.1	21.49	12.778			
4,700.0	4,677.4	4,692.0	4,682.5	12.2	10.8	-146.20	10.0	-202.1	277.7	255.7	21.99	12.629			
4,800.0	4,777.4	4,790.5	4,780.6	12.4	11.1	-144.64	11.0	-211.1	278.3	255.8	22.44	12.401			
4,822.6	4,800.0	4,812.8	4,802.8	12.4	11.1	178.30	11.2	-212.7	278.1	255.9	22.25	12.501			
4,900.0	4,877.4	4,889.0	4,878.9	12.5	11.3	179.16	11.7	-217.0	277.5	255.0	22.50	12.333			
5,000.0	4,977.4	4,987.8	4,977.6	12.7	11.5	179.67	12.0	-219.4	277.2	254.3	22.87	12.122			
5,043.1	5,020.4	5,030.6	5,020.4	12.8	11.5	179.69	12.0	-219.5	277.2	254.2	23.04	12.033			
5,100.0	5,077.4	5,087.5	5,077.4	12.9	11.7	179.69	12.0	-219.5	277.2	253.9	23.26	11.916			
5,200.0	5,177.4	5,187.5	5,177.4	13.1	11.9	179.69	12.0	-219.5	277.2	253.5	23.67	11.709			
5,300.0	5,277.4	5,287.5	5,277.4	13.3	12.1	179.69	12.0	-219.5	277.2	253.1	24.09	11.506			
5,400.0	5,377.4	5,387.5	5,377.4	13.5	12.3	179.69	12.0	-219.5	277.2	252.7	24.51	11.310			
5,500.0	5,477.4	5,487.5	5,477.4	13.7	12.5	179.69	12.0	-219.5	277.2	252.3	24.93	11.121			
5,600.0	5,577.4	5,587.5	5,577.4	13.9	12.7	179.69	12.0	-219.5	277.2	251.8	25.34	10.937			
5,700.0	5,677.4	5,687.5	5,677.4	14.1	12.9	179.69	12.0	-219.5	277.2	251.4	25.77	10.758			
5,800.0	5,777.4	5,787.5	5,777.4	14.3	13.1	179.69	12.0	-219.5	277.2	251.0	26.19	10.585			
5,840.8	5,818.1	5,828.3	5,818.1	14.4	13.2	179.69	12.0	-219.5	277.2	250.8	26.36	10.516			
5,850.0	5,827.4	5,837.5	5,827.4	14.4	13.2	89.70	12.0	-219.5	277.2	250.4	26.77	10.354			
5,888.7	5,866.1	5,876.2	5,866.1	14.4	13.3	90.00	12.0	-219.5	277.2	250.3	26.92	10.295			

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,900.0	5,877.3	5,887.5	5,877.3	14.4	13.3	90.16	12.0	-219.5	277.2	250.2	26.97	10.277	
5,950.0	5,927.0	5,937.5	5,927.3	14.5	13.4	90.97	12.0	-217.9	277.2	250.1	27.15	10.211	
6,000.0	5,976.2	5,987.8	5,977.3	14.6	13.5	91.77	12.0	-213.0	277.3	250.0	27.30	10.157	
6,050.0	6,024.8	6,038.3	6,027.2	14.6	13.6	92.57	12.0	-204.7	277.5	250.0	27.44	10.113	
6,100.0	6,072.4	6,089.1	6,076.7	14.6	13.6	93.35	12.0	-193.2	277.7	250.1	27.55	10.077	
6,150.0	6,119.0	6,140.2	6,125.5	14.7	13.7	94.12	12.0	-178.2	277.9	250.2	27.66	10.046	
6,200.0	6,164.3	6,191.5	6,173.5	14.7	13.7	94.88	12.0	-160.0	278.2	250.4	27.77	10.017	
6,250.0	6,208.1	6,243.1	6,220.3	14.7	13.8	95.61	12.0	-138.4	278.5	250.6	27.89	9.985	
6,300.0	6,250.2	6,295.0	6,265.8	14.7	13.9	96.32	12.0	-113.6	278.9	250.8	28.04	9.945	
6,350.0	6,290.5	6,347.1	6,309.8	14.7	14.0	97.01	12.0	-85.6	279.3	251.0	28.24	9.890	
6,400.0	6,328.7	6,399.4	6,351.9	14.8	14.1	97.66	12.0	-54.6	279.7	251.2	28.50	9.813	
6,450.0	6,364.8	6,452.0	6,392.0	14.8	14.3	98.27	12.0	-20.5	280.1	251.3	28.86	9.708	
6,500.0	6,398.6	6,504.8	6,429.8	14.9	14.5	98.85	12.0	16.3	280.5	251.2	29.32	9.568	
6,550.0	6,429.8	6,557.8	6,465.1	15.2	14.8	99.39	12.0	55.9	281.0	251.0	29.92	9.389	
6,600.0	6,458.4	6,611.1	6,497.7	15.6	15.2	99.89	12.0	97.9	281.4	250.7	30.68	9.172	
6,650.0	6,484.3	6,664.5	6,527.4	16.2	15.7	100.34	12.0	142.3	281.8	250.2	31.60	8.916	
6,700.0	6,507.3	6,718.1	6,553.9	16.8	16.3	100.75	12.0	188.8	282.1	249.4	32.70	8.628	
6,750.0	6,527.4	6,771.8	6,577.3	17.4	17.0	101.11	12.0	237.2	282.5	248.5	33.98	8.313	
6,800.0	6,544.5	6,825.7	6,597.2	18.2	17.8	101.41	12.0	287.3	282.8	247.3	35.44	7.980	
6,850.0	6,558.4	6,879.7	6,613.5	19.0	18.7	101.67	12.0	338.7	283.0	246.0	37.06	7.638	
6,900.0	6,569.2	6,933.7	6,626.2	19.9	19.6	101.87	12.0	391.3	283.2	244.4	38.83	7.295	
6,950.0	6,576.7	6,987.9	6,635.2	20.8	20.6	102.02	12.0	444.7	283.4	242.7	40.73	6.957	
7,000.0	6,581.0	7,042.1	6,640.4	21.8	21.7	102.11	12.0	498.6	283.5	240.8	42.75	6.632	
7,048.9	6,582.0	7,095.1	6,641.7	22.8	22.8	102.15	12.0	551.6	283.5	238.7	44.81	6.328	
7,100.0	6,581.5	7,146.2	6,641.3	23.9	23.9	102.16	12.0	602.7	283.6	236.6	46.94	6.041	
7,200.0	6,580.4	7,246.2	6,640.3	26.1	26.1	102.20	12.0	702.7	283.6	232.3	51.28	5.531	
7,300.0	6,579.4	7,346.2	6,639.4	28.5	28.4	102.23	12.0	802.7	283.6	227.8	55.82	5.081	
7,400.0	6,578.3	7,446.2	6,638.5	30.9	30.8	102.26	12.0	902.7	283.7	223.1	60.52	4.687	
7,500.0	6,577.2	7,546.2	6,637.6	33.3	33.3	102.29	12.0	1,002.7	283.7	218.4	65.34	4.342	
7,600.0	6,576.2	7,646.2	6,636.7	35.8	35.8	102.32	12.0	1,102.7	283.7	213.5	70.26	4.038	
7,700.0	6,575.1	7,746.2	6,635.8	38.4	38.4	102.35	12.0	1,202.7	283.8	208.5	75.26	3.770	
7,800.0	6,574.1	7,846.2	6,634.9	41.0	41.0	102.38	12.0	1,302.7	283.8	203.5	80.33	3.533	
7,900.0	6,573.0	7,946.2	6,634.0	43.6	43.6	102.41	12.0	1,402.7	283.8	198.4	85.44	3.322	
8,000.0	6,571.9	8,046.2	6,633.1	46.2	46.2	102.44	12.0	1,502.7	283.9	193.3	90.60	3.133	
8,100.0	6,570.9	8,146.2	6,632.2	48.9	48.9	102.47	12.0	1,602.7	283.9	188.1	95.80	2.964	
8,200.0	6,569.8	8,246.2	6,631.3	51.6	51.6	102.51	12.0	1,702.7	283.9	182.9	101.02	2.811	
8,300.0	6,568.7	8,346.2	6,630.4	54.2	54.3	102.54	12.0	1,802.7	284.0	177.7	106.27	2.672	
8,400.0	6,567.7	8,446.2	6,629.5	56.9	57.0	102.57	12.0	1,902.6	284.0	172.5	111.54	2.546	
8,500.0	6,566.6	8,546.2	6,628.5	59.6	59.7	102.60	12.0	2,002.6	284.0	167.2	116.83	2.431	
8,600.0	6,565.5	8,646.2	6,627.6	62.4	62.4	102.63	12.0	2,102.6	284.1	161.9	122.14	2.326	
8,700.0	6,564.5	8,746.2	6,626.7	65.1	65.1	102.66	12.0	2,202.6	284.1	156.7	127.46	2.229	
8,800.0	6,563.4	8,846.2	6,625.8	67.8	67.9	102.69	12.0	2,302.6	284.1	151.4	132.79	2.140	
8,900.0	6,562.3	8,946.2	6,624.9	70.6	70.6	102.72	12.0	2,402.6	284.2	146.1	138.13	2.057	
9,000.0	6,561.3	9,046.2	6,624.0	73.3	73.4	102.75	12.0	2,502.6	284.2	140.7	143.48	1.981	
9,100.0	6,560.2	9,146.2	6,623.1	76.1	76.1	102.78	12.0	2,602.6	284.3	135.4	148.84	1.910	
9,200.0	6,559.1	9,246.2	6,622.2	78.8	78.9	102.81	12.0	2,702.6	284.3	130.1	154.21	1.844	
9,300.0	6,558.1	9,346.2	6,621.3	81.6	81.6	102.84	12.0	2,802.6	284.3	124.7	159.58	1.782	
9,400.0	6,557.0	9,446.2	6,620.4	84.3	84.4	102.88	12.0	2,902.6	284.4	119.4	164.96	1.724	
9,500.0	6,556.0	9,546.2	6,619.5	87.1	87.1	102.91	12.0	3,002.6	284.4	114.1	170.34	1.670	
9,600.0	6,554.9	9,646.2	6,618.6	89.9	89.9	102.94	12.0	3,102.6	284.4	108.7	175.73	1.619	
9,700.0	6,553.8	9,746.2	6,617.7	92.6	92.7	102.97	12.0	3,202.6	284.5	103.3	181.12	1.571	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,800.0	6,552.8	9,846.2	6,616.8	95.4	95.5	103.00	12.0	3,302.6	284.5	98.0	186.51	1.525		
9,900.0	6,551.7	9,946.2	6,615.8	98.2	98.2	103.03	12.0	3,402.6	284.5	92.6	191.91	1.483 Level 3		
10,000.0	6,550.6	10,046.2	6,614.9	100.9	101.0	103.06	12.0	3,502.6	284.6	87.3	197.31	1.442 Level 3		
10,100.0	6,549.6	10,146.2	6,614.0	103.7	103.8	103.09	12.0	3,602.6	284.6	81.9	202.71	1.404 Level 3		
10,200.0	6,548.5	10,246.2	6,613.1	106.5	106.6	103.12	12.0	3,702.6	284.6	76.5	208.12	1.368 Level 3		
10,300.0	6,547.4	10,346.2	6,612.2	109.3	109.3	103.15	12.0	3,802.6	284.7	71.2	213.52	1.333 Level 3		
10,400.0	6,546.4	10,446.2	6,611.3	112.1	112.1	103.18	12.0	3,902.6	284.7	65.8	218.93	1.301 Level 3		
10,500.0	6,545.3	10,546.2	6,610.4	114.8	114.9	103.21	12.0	4,002.6	284.8	60.4	224.34	1.269 Level 3		
10,600.0	6,544.2	10,646.2	6,609.5	117.6	117.7	103.25	12.0	4,102.6	284.8	55.0	229.75	1.240 Level 2		
10,700.0	6,543.2	10,746.2	6,608.6	120.4	120.5	103.28	12.0	4,202.6	284.8	49.7	235.16	1.211 Level 2		
10,800.0	6,542.1	10,846.2	6,607.7	123.2	123.3	103.31	12.0	4,302.5	284.9	44.3	240.57	1.184 Level 2		
10,900.0	6,541.0	10,946.2	6,606.8	126.0	126.1	103.34	12.0	4,402.5	284.9	38.9	245.98	1.158 Level 2		
11,000.0	6,540.0	11,046.2	6,605.9	128.8	128.9	103.37	12.0	4,502.5	284.9	33.5	251.39	1.133 Level 2		
11,100.0	6,538.9	11,146.2	6,605.0	131.6	131.6	103.40	12.0	4,602.5	285.0	28.2	256.81	1.110 Level 2		
11,200.0	6,537.9	11,246.2	6,604.0	134.4	134.4	103.43	12.0	4,702.5	285.0	22.8	262.22	1.087 Level 2		
11,300.0	6,536.8	11,346.2	6,603.1	137.1	137.2	103.46	12.0	4,802.5	285.1	17.4	267.63	1.065 Level 2		
11,400.0	6,535.7	11,446.2	6,602.2	139.9	140.0	103.49	12.0	4,902.5	285.1	12.0	273.04	1.044 Level 2		
11,500.0	6,534.7	11,546.2	6,601.3	142.7	142.8	103.52	12.0	5,002.5	285.1	6.7	278.46	1.024 Level 2		
11,600.0	6,533.6	11,646.2	6,600.4	145.5	145.6	103.55	12.0	5,102.5	285.2	1.3	283.87	1.005 Level 2		
11,700.0	6,532.5	11,746.2	6,599.5	148.3	148.4	103.58	12.0	5,202.5	285.2	-4.1	289.28	0.986 Level 1		
11,800.0	6,531.5	11,846.2	6,598.6	151.1	151.2	103.61	12.0	5,302.5	285.2	-9.5	294.70	0.968 Level 1		
11,900.0	6,530.4	11,946.2	6,597.7	153.9	154.0	103.64	12.0	5,402.5	285.3	-14.8	300.11	0.951 Level 1		
12,000.0	6,529.3	12,046.2	6,596.8	156.7	156.8	103.67	12.0	5,502.5	285.3	-20.2	305.52	0.934 Level 1		
12,100.0	6,528.3	12,146.2	6,595.9	159.5	159.6	103.71	12.0	5,602.5	285.4	-25.6	310.93	0.918 Level 1		
12,200.0	6,527.2	12,246.2	6,595.0	162.3	162.4	103.74	12.0	5,702.5	285.4	-31.0	316.34	0.902 Level 1		
12,300.0	6,526.1	12,346.2	6,594.1	165.1	165.2	103.77	12.0	5,802.5	285.4	-36.3	321.75	0.887 Level 1		
12,400.0	6,525.1	12,446.2	6,593.2	167.9	168.0	103.80	12.0	5,902.5	285.5	-41.7	327.16	0.873 Level 1		
12,500.0	6,524.0	12,546.2	6,592.2	170.7	170.8	103.83	12.0	6,002.5	285.5	-47.1	332.57	0.858 Level 1		
12,600.0	6,523.0	12,646.2	6,591.3	173.5	173.6	103.86	12.0	6,102.5	285.5	-52.4	337.98	0.845 Level 1		
12,700.0	6,521.9	12,746.2	6,590.4	176.3	176.4	103.89	12.0	6,202.5	285.6	-57.8	343.39	0.832 Level 1		
12,800.0	6,520.8	12,846.2	6,589.5	179.1	179.2	103.92	12.0	6,302.5	285.6	-63.2	348.79	0.819 Level 1		
12,900.0	6,519.8	12,946.2	6,588.6	181.9	182.0	103.95	12.0	6,402.5	285.7	-68.5	354.20	0.806 Level 1		
13,000.0	6,518.7	13,046.2	6,587.7	184.7	184.8	103.98	12.0	6,502.5	285.7	-73.9	359.61	0.794 Level 1		
13,100.0	6,517.6	13,146.2	6,586.8	187.5	187.6	104.01	12.0	6,602.5	285.7	-79.3	365.01	0.783 Level 1		
13,200.0	6,516.6	13,246.2	6,585.9	190.3	190.4	104.04	12.0	6,702.4	285.8	-84.6	370.41	0.772 Level 1		
13,300.0	6,515.5	13,346.2	6,585.0	193.1	193.2	104.07	12.0	6,802.4	285.8	-90.0	375.82	0.761 Level 1		
13,400.0	6,514.4	13,446.2	6,584.1	195.9	196.0	104.10	12.0	6,902.4	285.9	-95.4	381.22	0.750 Level 1		
13,500.0	6,513.4	13,546.2	6,583.2	198.7	198.8	104.13	12.0	7,002.4	285.9	-100.7	386.62	0.739 Level 1		
13,600.0	6,512.3	13,646.2	6,582.3	201.5	201.6	104.16	12.0	7,102.4	285.9	-106.1	392.02	0.729 Level 1		
13,628.6	6,512.0	13,674.8	6,582.0	202.3	202.4	104.17	12.0	7,131.0	285.9	-107.6	393.56	0.727 Level 1, ES, SF		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-145.11	-24.8	-17.3	30.2					
100.0	100.0	100.0	100.0	0.1	0.1	-145.11	-24.8	-17.3	30.2	30.0	0.22	134.367		
200.0	200.0	200.0	200.0	0.3	0.3	-145.11	-24.8	-17.3	30.2	29.5	0.67	44.789		
300.0	300.0	300.0	300.0	0.6	0.6	-145.11	-24.8	-17.3	30.2	29.1	1.12	26.873		
400.0	400.0	400.0	400.0	0.8	0.8	-145.11	-24.8	-17.3	30.2	28.6	1.57	19.195		
500.0	500.0	500.0	500.0	1.0	1.0	-145.11	-24.8	-17.3	30.2	28.2	2.02	14.930		
600.0	600.0	600.0	600.0	1.2	1.2	-145.11	-24.8	-17.3	30.2	27.7	2.47	12.215		
700.0	700.0	700.0	700.0	1.5	1.5	-145.11	-24.8	-17.3	30.2	27.3	2.92	10.336		
800.0	800.0	800.0	800.0	1.7	1.7	-145.11	-24.8	-17.3	30.2	26.8	3.37	8.958		
900.0	900.0	900.0	900.0	1.9	1.9	-145.11	-24.8	-17.3	30.2	26.4	3.82	7.904		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-145.11	-24.8	-17.3	30.2	25.9	4.27	7.072		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-145.11	-24.8	-17.3	30.2	25.5	4.72	6.398		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-145.11	-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	-145.11	-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	-145.11	-24.8	-17.3	30.2	24.1	6.07	4.977 CC, ES		
1,500.0	1,500.0	1,499.2	1,499.2	3.3	3.2	-145.42	-25.9	-17.9	31.5	25.0	6.49	4.853		
1,600.0	1,600.0	1,598.3	1,598.2	3.5	3.4	-146.22	-29.3	-19.6	35.4	28.5	6.89	5.133		
1,700.0	1,700.0	1,697.0	1,696.7	3.7	3.6	-111.40	-35.0	-22.6	42.3	35.0	7.29	5.794		
1,800.0	1,799.9	1,795.2	1,794.4	3.9	3.8	-115.84	-42.9	-26.6	52.9	45.2	7.70	6.868		
1,900.0	1,899.7	1,892.4	1,891.0	4.2	4.0	-120.47	-53.0	-31.8	67.6	59.4	8.11	8.327		
2,000.0	1,999.3	1,989.3	1,987.0	4.4	4.2	-124.56	-65.0	-38.0	86.3	77.7	8.54	10.108		
2,100.6	2,099.2	2,087.5	2,084.1	4.6	4.5	-128.21	-77.5	-44.4	107.5	98.5	8.97	11.988		
2,200.0	2,197.7	2,184.2	2,179.8	4.9	4.7	-131.25	-89.9	-50.8	129.6	120.2	9.41	13.776		
2,300.0	2,296.9	2,281.5	2,276.1	5.1	5.0	-133.41	-102.4	-57.2	152.1	142.2	9.86	15.421		
2,400.0	2,396.0	2,378.8	2,372.4	5.4	5.3	-135.02	-114.8	-63.6	174.7	164.4	10.32	16.924		
2,500.0	2,495.1	2,476.1	2,468.7	5.7	5.5	-136.25	-127.3	-70.0	197.4	186.7	10.79	18.294		
2,600.0	2,594.3	2,573.4	2,565.0	6.0	5.8	-137.23	-139.8	-76.5	220.3	209.0	11.27	19.544		
2,700.0	2,693.4	2,670.7	2,661.3	6.3	6.1	-138.03	-152.2	-82.9	243.1	231.4	11.75	20.687		
2,800.0	2,792.6	2,768.0	2,757.6	6.5	6.4	-138.69	-164.7	-89.3	266.0	253.8	12.24	21.733		
2,900.0	2,891.7	2,865.3	2,853.8	6.8	6.8	-139.25	-177.1	-95.7	288.9	276.2	12.73	22.694		
3,000.0	2,890.9	2,862.6	2,850.1	7.1	7.1	-139.72	-189.6	-102.1	311.9	298.7	13.23	23.579		
3,100.0	3,090.0	3,059.9	3,046.4	7.4	7.4	-140.13	-202.1	-108.5	334.8	321.1	13.73	24.394		
3,200.0	3,189.1	3,157.2	3,142.7	7.7	7.7	-140.48	-214.5	-114.9	357.8	343.6	14.23	25.148		
3,300.0	3,288.3	3,254.5	3,239.0	8.0	8.0	-140.80	-227.0	-121.3	380.8	366.1	14.73	25.846		
3,400.0	3,387.4	3,351.8	3,335.3	8.4	8.3	-141.08	-239.5	-127.8	403.8	388.6	15.24	26.493		
3,500.0	3,486.6	3,449.1	3,431.6	8.7	8.7	-141.32	-251.9	-134.2	426.8	411.1	15.75	27.096		
3,600.0	3,585.7	3,546.4	3,527.9	9.0	9.0	-141.55	-264.4	-140.6	449.8	433.6	16.26	27.658		
3,700.0	3,684.9	3,643.7	3,624.1	9.3	9.3	-141.75	-276.8	-147.0	472.9	456.1	16.78	28.183		
3,800.0	3,784.0	3,741.0	3,720.4	9.6	9.7	-141.93	-289.3	-153.4	495.9	478.6	17.29	28.674		
3,900.0	3,883.1	3,838.3	3,816.7	9.9	10.0	-142.10	-301.8	-159.8	518.9	501.1	17.81	29.134		
4,000.0	3,982.3	3,935.6	3,913.0	10.2	10.3	-142.25	-314.2	-166.2	541.9	523.6	18.33	29.566		
4,100.0	4,081.4	4,032.9	4,009.3	10.5	10.7	-142.39	-326.7	-172.7	565.0	546.1	18.85	29.973		
4,200.0	4,180.6	4,130.2	4,105.6	10.9	11.0	-142.52	-339.2	-179.1	588.0	568.6	19.37	30.356		
4,300.0	4,279.7	4,227.5	4,201.9	11.2	11.3	-142.63	-351.6	-185.5	611.1	591.2	19.89	30.717		
4,400.0	4,378.8	4,324.8	4,298.2	11.5	11.7	-142.74	-364.1	-191.9	634.1	613.7	20.42	31.058		
4,447.2	4,425.6	4,370.7	4,343.6	11.6	11.8	-142.79	-370.0	-194.9	645.0	624.3	20.66	31.213		
4,500.0	4,478.1	4,422.2	4,394.5	11.8	12.0	-142.97	-376.6	-198.3	656.8	635.8	20.95	31.345		
4,600.0	4,577.6	4,520.1	4,491.4	12.0	12.3	-143.12	-389.1	-204.8	677.0	655.6	21.45	31.565		
4,700.0	4,677.4	4,618.9	4,589.2	12.2	12.7	-143.08	-401.7	-211.3	694.5	672.6	21.92	31.687		
4,800.0	4,777.4	4,745.5	4,714.8	12.4	13.0	-142.80	-415.4	-218.3	707.3	684.9	22.39	31.593		
4,822.6	4,800.0	4,774.4	4,743.6	12.4	13.1	179.88	-417.8	-219.6	709.3	685.0	24.33	29.152		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design		Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-212 - 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 (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	4,877.4	4,873.4	4,842.4	12.5	13.3	-179.85	-424.2	-222.8	714.3	689.6	24.67	28.949			
5,000.0	4,977.4	5,002.0	4,970.9	12.7	13.5	-179.70	-427.9	-224.8	717.2	692.1	25.10	28.573			
5,100.0	5,077.4	5,108.5	5,077.4	12.9	13.7	-179.69	-428.1	-224.8	717.3	691.8	25.47	28.157			
5,200.0	5,177.4	5,208.5	5,177.4	13.1	13.9	-179.69	-428.1	-224.8	717.3	691.5	25.83	27.769			
5,300.0	5,277.4	5,308.5	5,277.4	13.3	14.0	-179.69	-428.1	-224.8	717.3	691.1	26.19	27.389			
5,400.0	5,377.4	5,408.5	5,377.4	13.5	14.2	-179.69	-428.1	-224.8	717.3	690.7	26.55	27.016			
5,500.0	5,477.4	5,508.5	5,477.4	13.7	14.3	-179.69	-428.1	-224.8	717.3	690.4	26.91	26.651			
5,600.0	5,577.4	5,608.5	5,577.4	13.9	14.5	-179.69	-428.1	-224.8	717.3	690.0	27.28	26.292			
5,700.0	5,677.4	5,708.5	5,677.4	14.1	14.6	-179.69	-428.1	-224.8	717.3	689.6	27.65	25.942			
5,800.0	5,777.4	5,808.5	5,777.4	14.3	14.8	-179.69	-428.1	-224.8	717.3	689.3	28.02	25.598			
5,840.8	5,818.1	5,849.4	5,818.2	14.4	14.9	-179.70	-428.1	-224.8	717.3	689.1	28.17	25.460			
5,850.0	5,827.4	5,858.6	5,827.5	14.4	14.9	90.29	-428.1	-224.6	717.3	690.6	26.64	26.928			
5,900.0	5,877.3	5,908.8	5,877.6	14.4	15.0	90.24	-428.1	-221.6	717.3	690.5	26.80	26.766			
5,950.0	5,927.0	5,959.0	5,927.4	14.5	15.0	90.18	-428.1	-215.4	717.3	690.3	26.93	26.631			
6,000.0	5,976.2	6,009.1	5,976.6	14.6	15.1	90.12	-428.1	-206.0	717.3	690.2	27.05	26.520			
6,050.0	6,024.8	6,059.2	6,025.0	14.6	15.1	90.07	-428.1	-193.3	717.3	690.1	27.14	26.427			
6,099.2	6,071.7	6,108.4	6,071.7	14.6	15.1	90.01	-428.1	-177.8	717.3	690.0	27.23	26.346			
6,100.0	6,072.4	6,109.2	6,072.5	14.6	15.1	90.01	-428.1	-177.5	717.3	690.0	27.23	26.344			
6,150.0	6,119.0	6,159.2	6,118.7	14.7	15.2	89.95	-428.1	-158.7	717.3	690.0	27.31	26.262			
6,200.0	6,164.3	6,209.1	6,163.7	14.7	15.2	89.89	-428.1	-136.9	717.3	689.9	27.41	26.170			
6,250.0	6,208.1	6,259.0	6,207.0	14.7	15.2	89.84	-428.1	-112.3	717.3	689.7	27.53	26.052			
6,300.0	6,250.2	6,308.8	6,248.6	14.7	15.2	89.78	-428.1	-84.9	717.3	689.6	27.70	25.894			
6,350.0	6,290.5	6,358.6	6,288.3	14.7	15.2	89.73	-428.1	-54.8	717.3	689.3	27.93	25.679			
6,400.0	6,328.7	6,408.4	6,326.0	14.8	15.3	89.67	-428.1	-22.3	717.3	689.0	28.25	25.391			
6,450.0	6,364.8	6,458.1	6,361.4	14.8	15.3	89.62	-428.1	12.6	717.3	688.6	28.67	25.018			
6,500.0	6,398.6	6,507.8	6,394.4	14.9	15.3	89.57	-428.1	49.7	717.3	688.1	29.22	24.549			
6,550.0	6,429.8	6,557.4	6,425.0	15.2	15.4	89.52	-428.1	88.8	717.3	687.4	29.91	23.983			
6,600.0	6,458.4	6,607.0	6,452.9	15.6	15.5	89.48	-428.1	129.7	717.3	686.5	30.76	23.322			
6,650.0	6,484.3	6,656.5	6,478.0	16.2	15.9	89.43	-428.1	172.4	717.3	685.5	31.77	22.579			
6,700.0	6,507.3	6,706.1	6,500.4	16.8	16.5	89.39	-428.1	216.6	717.3	684.4	32.95	21.769			
6,750.0	6,527.4	6,755.5	6,519.8	17.4	17.1	89.35	-428.1	262.1	717.3	683.0	34.30	20.914			
6,800.0	6,544.5	6,805.0	6,536.2	18.2	17.9	89.31	-428.1	308.7	717.3	681.5	35.80	20.035			
6,850.0	6,558.4	6,854.4	6,549.6	19.0	18.7	89.28	-428.1	356.3	717.3	679.9	37.46	19.151			
6,900.0	6,569.2	6,903.8	6,559.9	19.9	19.6	89.25	-428.1	404.6	717.3	678.1	39.24	18.281			
6,950.0	6,576.7	6,953.2	6,567.0	20.8	20.6	89.22	-428.1	453.5	717.3	676.2	41.13	17.440			
7,000.0	6,581.0	7,002.6	6,570.9	21.8	21.6	89.20	-428.1	502.7	717.3	674.2	43.12	16.637			
7,048.9	6,582.0	7,050.9	6,571.7	22.8	22.6	89.18	-428.1	551.0	717.4	672.2	45.13	15.895			
7,100.0	6,581.5	7,102.0	6,571.3	23.9	23.7	89.18	-428.1	602.1	717.4	670.0	47.32	15.161			
7,200.0	6,580.4	7,202.0	6,570.4	26.1	26.0	89.20	-428.1	702.1	717.4	665.6	51.79	13.852			
7,300.0	6,579.4	7,302.0	6,569.5	28.5	28.3	89.21	-428.1	802.1	717.3	660.9	56.46	12.705			
7,400.0	6,578.3	7,402.0	6,568.6	30.9	30.7	89.22	-428.1	902.1	717.3	656.1	61.30	11.703			
7,500.0	6,577.2	7,502.0	6,567.6	33.3	33.2	89.23	-428.1	1,002.0	717.3	651.1	66.25	10.827			
7,600.0	6,576.2	7,602.0	6,566.7	35.8	35.7	89.25	-428.1	1,102.0	717.3	646.0	71.31	10.059			
7,700.0	6,575.1	7,702.0	6,565.8	38.4	38.3	89.26	-428.1	1,202.0	717.3	640.9	76.45	9.384			
7,800.0	6,574.1	7,802.0	6,564.9	41.0	40.9	89.27	-428.1	1,302.0	717.3	635.7	81.64	8.786			
7,900.0	6,573.0	7,902.0	6,564.0	43.6	43.5	89.28	-428.1	1,402.0	717.3	630.4	86.90	8.255			
8,000.0	6,571.9	8,002.0	6,563.1	46.2	46.2	89.30	-428.1	1,502.0	717.3	625.1	92.19	7.781			
8,100.0	6,570.9	8,102.0	6,562.2	48.9	48.9	89.31	-428.1	1,602.0	717.3	619.8	97.52	7.356			
8,200.0	6,569.8	8,202.0	6,561.3	51.6	51.5	89.32	-428.1	1,702.0	717.3	614.5	102.88	6.972			
8,300.0	6,568.7	8,302.0	6,560.4	54.2	54.2	89.33	-428.1	1,802.0	717.3	609.1	108.27	6.625			
8,400.0	6,567.7	8,402.0	6,559.5	56.9	56.9	89.35	-428.1	1,902.0	717.3	603.7	113.68	6.310			

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design		Connie 5N64W26EF Pad Sec.26-T5N-R64W - Connie 26F-212 - 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			
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
8,500.0	6,566.6	8,502.0	6,558.6		59.6	89.36	-428.1	2,002.0	717.3	598.2	119.11	6.022			
8,600.0	6,565.5	8,602.0	6,557.7	62.4	62.4	89.37	-428.1	2,102.0	717.3	592.8	124.56	5.759			
8,700.0	6,564.5	8,702.0	6,556.8	65.1	65.1	89.38	-428.1	2,202.0	717.3	587.3	130.02	5.517			
8,800.0	6,563.4	8,802.0	6,555.8	67.8	67.8	89.40	-428.1	2,302.0	717.3	581.8	135.49	5.294			
8,900.0	6,562.3	8,902.0	6,554.9	70.6	70.6	89.41	-428.1	2,402.0	717.3	576.3	140.98	5.088			
9,000.0	6,561.3	9,002.0	6,554.0	73.3	73.3	89.42	-428.1	2,502.0	717.3	570.9	146.48	4.897			
9,100.0	6,560.2	9,102.0	6,553.1	76.1	76.1	89.43	-428.1	2,602.0	717.3	565.3	151.98	4.720			
9,200.0	6,559.1	9,202.0	6,552.2	78.8	78.8	89.45	-428.1	2,702.0	717.3	559.8	157.49	4.555			
9,300.0	6,558.1	9,302.0	6,551.3	81.6	81.6	89.46	-428.1	2,802.0	717.3	554.3	163.02	4.400			
9,400.0	6,557.0	9,402.0	6,550.4	84.3	84.4	89.47	-428.1	2,902.0	717.3	548.8	168.54	4.256			
9,500.0	6,556.0	9,502.0	6,549.5	87.1	87.1	89.48	-428.1	3,002.0	717.3	543.3	174.08	4.121			
9,600.0	6,554.9	9,602.0	6,548.6	89.9	89.9	89.50	-428.1	3,102.0	717.3	537.7	179.61	3.994			
9,700.0	6,553.8	9,702.0	6,547.7	92.6	92.7	89.51	-428.1	3,202.0	717.3	532.2	185.16	3.874			
9,800.0	6,552.8	9,802.0	6,546.8	95.4	95.4	89.52	-428.1	3,302.0	717.3	526.6	190.70	3.761			
9,900.0	6,551.7	9,902.0	6,545.9	98.2	98.2	89.53	-428.1	3,401.9	717.3	521.1	196.26	3.655			
10,000.0	6,550.6	10,002.0	6,545.0	100.9	101.0	89.55	-428.1	3,501.9	717.3	515.5	201.81	3.554			
10,100.0	6,549.6	10,102.0	6,544.1	103.7	103.8	89.56	-428.1	3,601.9	717.3	510.0	207.37	3.459			
10,200.0	6,548.5	10,202.0	6,543.1	106.5	106.5	89.57	-428.1	3,701.9	717.3	504.4	212.93	3.369			
10,300.0	6,547.4	10,302.0	6,542.2	109.3	109.3	89.58	-428.1	3,801.9	717.3	498.8	218.50	3.283			
10,400.0	6,546.4	10,402.0	6,541.3	112.1	112.1	89.60	-428.1	3,901.9	717.3	493.3	224.07	3.201			
10,500.0	6,545.3	10,502.0	6,540.4	114.8	114.9	89.61	-428.1	4,001.9	717.3	487.7	229.64	3.124			
10,600.0	6,544.2	10,602.0	6,539.5	117.6	117.7	89.62	-428.1	4,101.9	717.3	482.1	235.21	3.050			
10,700.0	6,543.2	10,702.0	6,538.6	120.4	120.5	89.63	-428.1	4,201.9	717.3	476.5	240.79	2.979			
10,800.0	6,542.1	10,802.0	6,537.7	123.2	123.3	89.65	-428.1	4,301.9	717.3	471.0	246.36	2.912			
10,900.0	6,541.0	10,902.0	6,536.8	126.0	126.0	89.66	-428.1	4,401.9	717.3	465.4	251.94	2.847			
11,000.0	6,540.0	11,002.0	6,535.9	128.8	128.8	89.67	-428.1	4,501.9	717.3	459.8	257.52	2.785			
11,100.0	6,538.9	11,102.0	6,535.0	131.6	131.6	89.68	-428.1	4,601.9	717.3	454.2	263.11	2.726			
11,200.0	6,537.9	11,202.0	6,534.1	134.4	134.4	89.70	-428.1	4,701.9	717.3	448.6	268.69	2.670			
11,300.0	6,536.8	11,302.0	6,533.2	137.1	137.2	89.71	-428.1	4,801.9	717.3	443.0	274.28	2.615			
11,400.0	6,535.7	11,402.0	6,532.3	139.9	140.0	89.72	-428.1	4,901.9	717.3	437.5	279.86	2.563			
11,487.5	6,534.8	11,489.5	6,531.5	142.4	142.5	89.73	-428.1	4,989.4	717.3	432.6	284.75	2.519			
11,500.0	6,534.7	11,502.0	6,531.3	142.7	142.8	89.74	-428.1	5,001.9	717.3	431.9	285.45	2.513			
11,600.0	6,533.6	11,602.0	6,530.4	145.5	145.6	89.75	-428.1	5,101.9	717.3	426.3	291.04	2.465			
11,700.0	6,532.5	11,702.0	6,529.5	148.3	148.4	89.76	-428.1	5,201.9	717.3	420.7	296.63	2.418			
11,800.0	6,531.5	11,802.0	6,528.6	151.1	151.2	89.77	-428.1	5,301.9	717.3	415.1	302.22	2.373			
11,900.0	6,530.4	11,902.0	6,527.7	153.9	154.0	89.79	-428.1	5,401.9	717.3	409.5	307.82	2.330			
12,000.0	6,529.3	12,002.0	6,526.8	156.7	156.8	89.80	-428.1	5,501.9	717.3	403.9	313.41	2.289			
12,100.0	6,528.3	12,102.0	6,525.9	159.5	159.6	89.81	-428.1	5,601.9	717.3	398.3	319.00	2.249			
12,200.0	6,527.2	12,202.0	6,525.0	162.3	162.4	89.82	-428.1	5,701.9	717.3	392.7	324.60	2.210			
12,300.0	6,526.1	12,302.0	6,524.1	165.1	165.2	89.84	-428.1	5,801.8	717.3	387.1	330.20	2.172			
12,400.0	6,525.1	12,402.0	6,523.2	167.9	168.0	89.85	-428.1	5,901.8	717.3	381.5	335.79	2.136			
12,500.0	6,524.0	12,502.0	6,522.3	170.7	170.8	89.86	-428.1	6,001.8	717.3	375.9	341.39	2.101			
12,600.0	6,523.0	12,602.0	6,521.4	173.5	173.6	89.87	-428.1	6,101.8	717.3	370.3	346.99	2.067			
12,700.0	6,521.9	12,702.0	6,520.5	176.3	176.4	89.89	-428.1	6,201.8	717.3	364.7	352.59	2.034			
12,800.0	6,520.8	12,802.0	6,519.5	179.1	179.2	89.90	-428.1	6,301.8	717.3	359.1	358.19	2.003			
12,900.0	6,519.8	12,902.0	6,518.6	181.9	182.0	89.91	-428.1	6,401.8	717.3	353.5	363.79	1.972			
13,000.0	6,518.7	13,002.0	6,517.7	184.7	184.8	89.92	-428.1	6,501.8	717.3	347.9	369.39	1.942			
13,100.0	6,517.6	13,102.0	6,516.8	187.5	187.6	89.94	-428.1	6,601.8	717.3	342.3	374.99	1.913			
13,200.0	6,516.6	13,202.0	6,515.9	190.3	190.4	89.95	-428.1	6,701.8	717.3	336.7	380.59	1.885			
13,300.0	6,515.5	13,302.0	6,515.0	193.1	193.2	89.96	-428.1	6,801.8	717.3	331.1	386.20	1.857			
13,400.0	6,514.4	13,402.0	6,514.1	195.9	196.0	89.97	-428.1	6,901.8	717.3	325.5	391.80	1.831			

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference														
Offset														
Semi Major Axis														
Distance														
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
13,500.0	6,513.4	13,502.0	6,513.2	198.7	198.8	89.99	-428.1	7,001.8	717.3	319.9	397.40	1.805		
13,600.0	6,512.3	13,602.0	6,512.3	201.5	201.6	90.00	-428.1	7,101.8	717.3	314.3	403.01	1.780		
13,628.6	6,512.0	13,630.5	6,512.0	202.3	202.4	90.00	-428.1	7,130.3	717.3	312.7	404.61	1.773 SF		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-144.85	-36.8	-25.9	45.0	45.0	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	-144.85	-36.8	-25.9	45.0	44.8	0.23	198.241		
200.0	200.0	201.0	201.0	0.3	0.3	-144.85	-36.8	-25.9	45.0	44.3	0.68	66.519		
300.0	300.0	301.0	301.0	0.6	0.6	-144.85	-36.8	-25.9	45.0	43.9	1.13	39.965		
400.0	400.0	401.0	401.0	0.8	0.8	-144.85	-36.8	-25.9	45.0	43.4	1.58	28.563		
500.0	500.0	501.0	501.0	1.0	1.0	-144.85	-36.8	-25.9	45.0	43.0	2.03	22.222		
600.0	600.0	601.0	601.0	1.2	1.2	-144.85	-36.8	-25.9	45.0	42.5	2.47	18.186		
700.0	700.0	701.0	701.0	1.5	1.5	-144.85	-36.8	-25.9	45.0	42.1	2.92	15.390		
800.0	800.0	801.0	801.0	1.7	1.7	-144.85	-36.8	-25.9	45.0	41.6	3.37	13.339		
900.0	900.0	901.0	901.0	1.9	1.9	-144.85	-36.8	-25.9	45.0	41.2	3.82	11.771		
966.3	966.3	967.3	967.3	2.1	2.1	-144.85	-36.8	-25.9	45.0	40.9	4.12	10.919 CC		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	-144.85	-36.8	-25.9	45.0	40.7	4.27	10.533 ES		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.3	-145.35	-38.0	-26.3	46.3	41.6	4.69	9.860		
1,200.0	1,200.0	1,198.6	1,198.5	2.6	2.5	-146.69	-41.7	-27.4	50.0	44.9	5.09	9.822		
1,300.0	1,300.0	1,297.1	1,296.8	2.8	2.7	-148.51	-47.8	-29.3	56.3	50.8	5.50	10.230		
1,400.0	1,400.0	1,395.1	1,394.4	3.0	2.9	-150.47	-56.3	-31.9	65.1	59.1	5.92	10.991		
1,500.0	1,500.0	1,492.7	1,491.3	3.3	3.1	-152.32	-67.1	-35.2	76.4	70.1	6.35	12.032		
1,600.0	1,600.0	1,589.6	1,587.3	3.5	3.4	-153.94	-80.2	-39.2	90.3	83.5	6.80	13.290		
1,700.0	1,700.0	1,685.6	1,682.0	3.7	3.6	-118.29	-95.5	-43.9	107.4	100.2	7.19	14.933		
1,800.0	1,799.9	1,782.9	1,777.6	3.9	3.9	-120.60	-112.5	-49.1	127.5	119.9	7.62	16.727		
1,900.0	1,899.7	1,880.3	1,873.4	4.2	4.2	-123.05	-129.5	-54.4	149.2	141.2	8.05	18.526		
2,000.0	1,999.3	1,977.2	1,968.6	4.4	4.6	-125.52	-146.5	-59.6	172.7	164.2	8.49	20.334		
2,100.6	2,099.2	2,074.2	2,063.9	4.6	4.9	-127.94	-163.5	-64.8	198.1	189.2	8.93	22.172		
2,200.0	2,197.7	2,169.7	2,157.8	4.9	5.3	-130.30	-180.2	-69.9	224.4	215.0	9.39	23.892		
2,300.0	2,296.9	2,265.8	2,252.3	5.1	5.6	-132.16	-197.1	-75.1	251.1	241.3	9.86	25.466		
2,400.0	2,396.0	2,361.8	2,346.7	5.4	6.0	-133.68	-213.9	-80.2	278.0	267.7	10.34	26.896		
2,500.0	2,495.1	2,457.9	2,441.2	5.7	6.4	-134.92	-230.7	-85.4	305.1	294.3	10.82	28.197		
2,600.0	2,594.3	2,554.0	2,535.6	6.0	6.7	-135.96	-247.5	-90.6	332.3	321.0	11.31	29.382		
2,700.0	2,693.4	2,650.0	2,630.0	6.3	7.1	-136.85	-264.4	-95.7	359.6	347.8	11.80	30.464		
2,800.0	2,792.6	2,746.1	2,724.5	6.5	7.5	-137.61	-281.2	-100.9	386.9	374.6	12.30	31.455		
2,900.0	2,891.7	2,842.2	2,818.9	6.8	7.9	-138.27	-298.0	-106.1	414.3	401.5	12.80	32.363		
3,000.0	2,990.9	2,938.3	2,913.4	7.1	8.2	-138.84	-314.9	-111.2	441.8	428.5	13.31	33.198		
3,100.0	3,090.0	3,034.3	3,007.8	7.4	8.6	-139.35	-331.7	-116.4	469.2	455.4	13.81	33.968		
3,200.0	3,189.1	3,130.4	3,102.3	7.7	9.0	-139.81	-348.5	-121.6	496.8	482.4	14.32	34.680		
3,300.0	3,288.3	3,226.5	3,196.7	8.0	9.4	-140.21	-365.4	-126.7	524.3	509.5	14.84	35.339		
3,400.0	3,387.4	3,322.5	3,291.2	8.4	9.8	-140.58	-382.2	-131.9	551.8	536.5	15.35	35.950		
3,500.0	3,486.6	3,418.6	3,385.6	8.7	10.2	-140.91	-399.0	-137.0	579.4	563.6	15.87	36.520		
3,600.0	3,585.7	3,514.7	3,480.0	9.0	10.6	-141.21	-415.8	-142.2	607.0	590.6	16.38	37.050		
3,700.0	3,684.9	3,610.7	3,574.5	9.3	11.0	-141.49	-432.7	-147.4	634.6	617.7	16.90	37.546		
3,800.0	3,784.0	3,706.8	3,668.9	9.6	11.3	-141.74	-449.5	-152.5	662.2	644.8	17.42	38.010		
3,900.0	3,883.1	3,802.9	3,763.4	9.9	11.7	-141.97	-466.3	-157.7	689.9	671.9	17.94	38.445		
4,000.0	3,982.3	3,899.0	3,857.8	10.2	12.1	-142.18	-483.2	-162.9	717.5	699.0	18.47	38.854		
4,100.0	4,081.4	3,995.0	3,952.3	10.5	12.5	-142.38	-500.0	-168.0	745.2	726.2	18.99	39.238		
4,200.0	4,180.6	4,091.1	4,046.7	10.9	12.9	-142.57	-516.8	-173.2	772.8	753.3	19.52	39.601		
4,300.0	4,279.7	4,187.2	4,141.2	11.2	13.3	-142.74	-533.7	-178.4	800.5	780.4	20.04	39.943		
4,400.0	4,378.8	4,283.2	4,235.6	11.5	13.7	-142.90	-550.5	-183.5	828.1	807.6	20.57	40.266		
4,447.2	4,425.6	4,328.6	4,280.2	11.6	13.9	-142.97	-558.4	-186.0	841.2	820.4	20.82	40.412		
4,500.0	4,478.1	4,379.4	4,330.1	11.8	14.1	-143.20	-567.3	-188.7	855.4	834.3	21.12	40.512		
4,600.0	4,577.6	4,476.3	4,425.4	12.0	14.5	-143.51	-584.3	-193.9	880.4	858.7	21.63	40.694		
4,700.0	4,677.4	4,573.8	4,521.2	12.2	14.9	-143.64	-601.4	-199.1	902.5	880.4	22.12	40.793		
4,800.0	4,777.4	4,671.8	4,617.5	12.4	15.3	-143.61	-618.6	-204.4	922.0	899.4	22.59	40.818		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference														
Offset														
Semi Major Axis														
Distance														
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
4,822.6	4,800.0	4,694.0	4,639.4	12.4	15.4	179.03	-622.4	-205.6	926.0	899.2	26.80	34.546		
4,900.0	4,877.4	4,770.1	4,714.2	12.5	15.7	179.30	-635.8	-209.7	939.5	912.3	27.25	34.477		
5,000.0	4,977.4	4,885.4	4,827.6	12.7	16.2	179.68	-655.5	-215.7	956.7	928.8	27.88	34.315		
5,100.0	5,077.4	5,031.4	4,972.2	12.9	16.5	-179.96	-675.0	-221.7	970.0	941.6	28.45	34.091		
5,200.0	5,177.4	5,179.1	5,119.3	13.1	16.9	-179.73	-687.5	-225.6	978.5	949.6	28.96	33.788		
5,300.0	5,277.4	5,327.7	5,267.8	13.3	17.1	-179.64	-692.8	-227.2	982.1	952.7	29.40	33.404		
5,400.0	5,377.4	5,438.3	5,378.4	13.5	17.2	-179.64	-693.0	-227.2	982.2	952.5	29.75	33.015		
5,500.0	5,477.4	5,538.3	5,478.4	13.7	17.4	-179.64	-693.0	-227.2	982.2	952.1	30.08	32.657		
5,600.0	5,577.4	5,638.3	5,578.4	13.9	17.5	-179.64	-693.0	-227.2	982.2	951.8	30.41	32.304		
5,700.0	5,677.4	5,738.3	5,678.4	14.1	17.6	-179.64	-693.0	-227.2	982.2	951.5	30.74	31.955		
5,800.0	5,777.4	5,838.3	5,778.4	14.3	17.7	-179.64	-693.0	-227.2	982.2	951.1	31.07	31.611		
5,840.8	5,818.1	5,879.1	5,819.1	14.4	17.8	-179.64	-693.0	-227.2	982.2	951.0	31.21	31.472		
5,850.0	5,827.4	5,888.3	5,828.4	14.4	17.8	90.37	-693.0	-227.2	982.2	955.1	27.12	36.220		
5,900.0	5,877.3	5,938.2	5,878.3	14.4	17.9	90.50	-693.0	-227.2	982.2	954.9	27.28	36.000		
5,950.0	5,927.0	5,988.8	5,928.8	14.5	17.9	90.72	-693.0	-225.5	982.3	954.8	27.43	35.812		
6,000.0	5,976.2	6,039.6	5,979.4	14.6	18.0	90.94	-693.0	-220.5	982.3	954.8	27.55	35.656		
6,050.0	6,024.8	6,090.7	6,029.7	14.6	18.0	91.16	-693.0	-212.0	982.4	954.7	27.65	35.528		
6,100.0	6,072.4	6,142.0	6,079.6	14.6	18.1	91.37	-693.0	-200.1	982.5	954.7	27.74	35.421		
6,150.0	6,119.0	6,193.6	6,128.9	14.7	18.1	91.57	-693.0	-184.8	982.6	954.8	27.82	35.323		
6,200.0	6,164.3	6,245.4	6,177.2	14.7	18.1	91.78	-693.0	-166.2	982.7	954.8	27.90	35.221		
6,250.0	6,208.1	6,297.5	6,224.4	14.7	18.1	91.97	-693.0	-144.1	982.8	954.8	28.00	35.097		
6,300.0	6,250.2	6,349.8	6,270.2	14.7	18.2	92.15	-693.0	-118.8	982.9	954.8	28.14	34.932		
6,350.0	6,290.5	6,402.4	6,314.3	14.7	18.2	92.33	-693.0	-90.3	983.0	954.7	28.33	34.702		
6,400.0	6,328.7	6,455.2	6,356.6	14.8	18.2	92.49	-693.0	-58.7	983.1	954.5	28.59	34.384		
6,450.0	6,364.8	6,508.2	6,396.7	14.8	18.2	92.65	-693.0	-24.1	983.2	954.3	28.96	33.954		
6,500.0	6,398.6	6,561.3	6,434.5	14.9	18.3	92.79	-693.0	13.4	983.4	953.9	29.45	33.395		
6,550.0	6,429.8	6,614.7	6,469.6	15.2	18.3	92.92	-693.0	53.5	983.5	953.4	30.07	32.703		
6,600.0	6,458.4	6,668.3	6,502.0	15.6	18.4	93.04	-693.0	96.2	983.6	952.7	30.86	31.867		
6,650.0	6,484.3	6,722.0	6,531.4	16.2	18.5	93.14	-693.0	141.1	983.7	951.8	31.83	30.904		
6,700.0	6,507.3	6,775.8	6,557.7	16.8	18.7	93.23	-693.0	188.1	983.8	950.8	32.98	29.832		
6,750.0	6,527.4	6,829.7	6,580.6	17.4	18.9	93.30	-693.0	236.9	983.8	949.5	34.31	28.679		
6,800.0	6,544.5	6,883.8	6,600.0	18.2	19.4	93.36	-693.0	287.3	983.9	948.1	35.81	27.475		
6,850.0	6,558.4	6,937.9	6,615.8	19.0	20.0	93.40	-693.0	339.0	983.9	946.5	37.48	26.253		
6,900.0	6,569.2	6,992.0	6,628.0	19.9	20.7	93.43	-693.0	391.8	984.0	944.7	39.29	25.041		
6,950.0	6,576.7	7,046.2	6,636.4	20.8	21.6	93.44	-693.0	445.3	984.0	942.7	41.24	23.861		
7,000.0	6,581.0	7,100.4	6,640.9	21.8	22.6	93.44	-693.0	499.3	984.0	940.7	43.29	22.732		
7,047.7	6,582.1	7,151.6	6,641.8	22.8	23.6	93.42	-693.0	550.4	983.9	938.6	45.31	21.716		
7,048.9	6,582.0	7,152.7	6,641.7	22.8	23.6	93.42	-693.0	551.6	983.9	938.6	45.36	21.693		
7,100.0	6,581.5	7,203.8	6,641.3	23.9	24.7	93.42	-693.0	602.7	984.0	936.4	47.53	20.703		
7,200.0	6,580.4	7,303.8	6,640.4	26.1	26.8	93.43	-693.0	702.7	984.0	932.0	51.97	18.934		
7,300.0	6,579.4	7,403.8	6,639.5	28.5	29.1	93.44	-693.0	802.7	984.0	927.4	56.62	17.379		
7,400.0	6,578.3	7,503.8	6,638.6	30.9	31.5	93.45	-693.0	902.7	984.0	922.6	61.43	16.018		
7,500.0	6,577.2	7,603.8	6,637.7	33.3	33.9	93.46	-693.0	1,002.7	984.0	917.6	66.36	14.827		
7,600.0	6,576.2	7,703.8	6,636.7	35.8	36.4	93.47	-693.0	1,102.7	984.0	912.6	71.40	13.782		
7,700.0	6,575.1	7,803.8	6,635.8	38.4	38.9	93.48	-693.0	1,202.7	984.0	907.5	76.52	12.860		
7,800.0	6,574.1	7,903.8	6,634.9	41.0	41.5	93.49	-693.0	1,302.7	984.0	902.3	81.70	12.045		
7,900.0	6,573.0	8,003.8	6,634.0	43.6	44.1	93.50	-693.0	1,402.7	984.0	897.1	86.93	11.320		
8,000.0	6,571.9	8,103.8	6,633.1	46.2	46.7	93.51	-693.0	1,502.7	984.0	891.8	92.21	10.672		
8,100.0	6,570.9	8,203.8	6,632.2	48.9	49.3	93.52	-693.0	1,602.7	984.0	886.5	97.52	10.091		
8,200.0	6,569.8	8,303.8	6,631.3	51.6	52.0	93.53	-693.0	1,702.7	984.1	881.2	102.87	9.566		
8,300.0	6,568.7	8,403.8	6,630.4	54.2	54.7	93.53	-693.0	1,802.6	984.1	875.8	108.24	9.091		

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
8,400.0	6,567.7	8,503.8	6,629.5	56.9	57.4	93.54	-693.0	1,902.6	984.1	870.4	113.64	8.660	
8,500.0	6,566.6	8,603.8	6,628.6	59.6	60.1	93.55	-693.0	2,002.6	984.1	865.0	119.05	8.266	
8,600.0	6,565.5	8,703.8	6,627.7	62.4	62.8	93.56	-693.0	2,102.6	984.1	859.6	124.48	7.905	
8,700.0	6,564.5	8,803.8	6,626.8	65.1	65.5	93.57	-693.0	2,202.6	984.1	854.2	129.93	7.574	
8,800.0	6,563.4	8,903.8	6,625.9	67.8	68.2	93.58	-693.0	2,302.6	984.1	848.7	135.39	7.269	
8,900.0	6,562.3	9,003.8	6,624.9	70.6	70.9	93.59	-693.0	2,402.6	984.1	843.3	140.86	6.986	
9,000.0	6,561.3	9,103.8	6,624.0	73.3	73.7	93.60	-693.0	2,502.6	984.1	837.8	146.34	6.725	
9,100.0	6,560.2	9,203.8	6,623.1	76.1	76.4	93.61	-693.0	2,602.6	984.1	832.3	151.84	6.482	
9,200.0	6,559.1	9,303.8	6,622.2	78.8	79.2	93.62	-693.0	2,702.6	984.1	826.8	157.33	6.255	
9,300.0	6,558.1	9,403.8	6,621.3	81.6	81.9	93.63	-693.0	2,802.6	984.2	821.3	162.84	6.044	
9,400.0	6,557.0	9,503.8	6,620.4	84.3	84.7	93.63	-693.0	2,902.6	984.2	815.8	168.35	5.846	
9,500.0	6,556.0	9,603.8	6,619.5	87.1	87.4	93.64	-693.0	3,002.6	984.2	810.3	173.87	5.660	
9,600.0	6,554.9	9,703.8	6,618.6	89.9	90.2	93.65	-693.0	3,102.6	984.2	804.8	179.40	5.486	
9,700.0	6,553.8	9,803.8	6,617.7	92.6	93.0	93.66	-693.0	3,202.6	984.2	799.3	184.93	5.322	
9,800.0	6,552.8	9,903.8	6,616.8	95.4	95.7	93.67	-693.0	3,302.6	984.2	793.7	190.46	5.167	
9,900.0	6,551.7	10,003.8	6,615.9	98.2	98.5	93.68	-693.0	3,402.6	984.2	788.2	196.00	5.021	
10,000.0	6,550.6	10,103.8	6,615.0	100.9	101.3	93.69	-693.0	3,502.6	984.2	782.7	201.54	4.883	
10,100.0	6,549.6	10,203.8	6,614.1	103.7	104.0	93.70	-693.0	3,602.6	984.2	777.1	207.09	4.753	
10,200.0	6,548.5	10,303.8	6,613.1	106.5	106.8	93.71	-693.0	3,702.6	984.2	771.6	212.64	4.629	
10,300.0	6,547.4	10,403.8	6,612.2	109.3	109.6	93.72	-693.0	3,802.6	984.3	766.1	218.19	4.511	
10,400.0	6,546.4	10,503.8	6,611.3	112.1	112.4	93.73	-693.0	3,902.6	984.3	760.5	223.74	4.399	
10,500.0	6,545.3	10,603.8	6,610.4	114.8	115.2	93.74	-693.0	4,002.6	984.3	755.0	229.30	4.293	
10,600.0	6,544.2	10,703.8	6,609.5	117.6	117.9	93.74	-693.0	4,102.6	984.3	749.4	234.86	4.191	
10,700.0	6,543.2	10,803.8	6,608.6	120.4	120.7	93.75	-693.0	4,202.5	984.3	743.9	240.42	4.094	
10,800.0	6,542.1	10,903.8	6,607.7	123.2	123.5	93.76	-693.0	4,302.5	984.3	738.3	245.98	4.002	
10,900.0	6,541.0	11,003.8	6,606.8	126.0	126.3	93.77	-693.0	4,402.5	984.3	732.8	251.55	3.913	
11,000.0	6,540.0	11,103.8	6,605.9	128.8	129.1	93.78	-693.0	4,502.5	984.3	727.2	257.11	3.828	
11,100.0	6,538.9	11,203.8	6,605.0	131.6	131.9	93.79	-693.0	4,602.5	984.3	721.7	262.68	3.747	
11,200.0	6,537.9	11,303.8	6,604.1	134.4	134.7	93.80	-693.0	4,702.5	984.3	716.1	268.25	3.669	
11,300.0	6,536.8	11,403.8	6,603.2	137.1	137.4	93.81	-693.0	4,802.5	984.4	710.5	273.82	3.595	
11,400.0	6,535.7	11,503.8	6,602.3	139.9	140.2	93.82	-693.0	4,902.5	984.4	705.0	279.39	3.523	
11,500.0	6,534.7	11,603.8	6,601.4	142.7	143.0	93.83	-693.0	5,002.5	984.4	699.4	284.97	3.454	
11,600.0	6,533.6	11,703.8	6,600.4	145.5	145.8	93.84	-693.0	5,102.5	984.4	693.8	290.54	3.388	
11,700.0	6,532.5	11,803.8	6,599.5	148.3	148.6	93.84	-693.0	5,202.5	984.4	688.3	296.12	3.324	
11,800.0	6,531.5	11,903.8	6,598.6	151.1	151.4	93.85	-693.0	5,302.5	984.4	682.7	301.70	3.263	
11,900.0	6,530.4	12,003.8	6,597.7	153.9	154.2	93.86	-693.0	5,402.5	984.4	677.1	307.27	3.204	
12,000.0	6,529.3	12,103.8	6,596.8	156.7	157.0	93.87	-693.0	5,502.5	984.4	671.6	312.85	3.147	
12,100.0	6,528.3	12,203.8	6,595.9	159.5	159.8	93.88	-693.0	5,602.5	984.4	666.0	318.43	3.092	
12,200.0	6,527.2	12,303.8	6,595.0	162.3	162.6	93.89	-693.0	5,702.5	984.5	660.4	324.01	3.038	
12,300.0	6,526.1	12,403.8	6,594.1	165.1	165.4	93.90	-693.0	5,802.5	984.5	654.9	329.59	2.987	
12,400.0	6,525.1	12,503.8	6,593.2	167.9	168.2	93.91	-693.0	5,902.5	984.5	649.3	335.17	2.937	
12,500.0	6,524.0	12,603.8	6,592.3	170.7	171.0	93.92	-693.0	6,002.5	984.5	643.7	340.76	2.889	
12,600.0	6,523.0	12,703.8	6,591.4	173.5	173.8	93.93	-693.0	6,102.5	984.5	638.2	346.34	2.843	
12,700.0	6,521.9	12,803.8	6,590.5	176.3	176.6	93.94	-693.0	6,202.5	984.5	632.6	351.92	2.798	
12,800.0	6,520.8	12,903.8	6,589.6	179.1	179.4	93.95	-693.0	6,302.5	984.5	627.0	357.51	2.754	
12,900.0	6,519.8	13,003.8	6,588.6	181.9	182.2	93.95	-693.0	6,402.5	984.5	621.4	363.09	2.712	
13,000.0	6,518.7	13,103.8	6,587.7	184.7	185.0	93.96	-693.0	6,502.5	984.5	615.9	368.68	2.670	
13,100.0	6,517.6	13,203.8	6,586.8	187.5	187.8	93.97	-693.0	6,602.4	984.5	610.3	374.26	2.631	
13,200.0	6,516.6	13,303.8	6,585.9	190.3	190.6	93.98	-693.0	6,702.4	984.6	604.7	379.85	2.592	
13,300.0	6,515.5	13,403.8	6,585.0	193.1	193.4	93.99	-693.0	6,802.4	984.6	599.1	385.43	2.554	
13,400.0	6,514.4	13,503.8	6,584.1	195.9	196.2	94.00	-693.0	6,902.4	984.6	593.6	391.02	2.518	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference														
Offset														
Semi Major Axis														
Distance														
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
13,500.0	6,513.4	13,603.8	6,583.2	198.7	199.0	94.01	-693.0	7,002.4	984.6	588.0	396.61	2.483		
13,600.0	6,512.3	13,703.8	6,582.3	201.5	201.8	94.02	-693.0	7,102.4	984.6	582.4	402.19	2.448		
13,628.6	6,512.0	13,732.4	6,582.0	202.3	202.6	94.02	-693.0	7,131.0	984.6	580.8	403.79	2.438 SF		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-1 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 6816-UNKNOWN													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	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)			
7,400.0	6,578.3	6,561.3	6,561.3	30.9	131.2	91.09	-165.7	1,713.2	930.0	768.0	161.99	5.741	2.488 CC, ES, SF	
7,500.0	6,577.2	6,560.2	6,560.2	33.3	131.2	90.95	-165.7	1,713.2	844.2	679.7	164.44	5.134		
7,600.0	6,576.2	6,559.2	6,559.2	35.8	131.2	90.82	-165.7	1,713.2	761.8	594.9	166.93	4.564		
7,700.0	6,575.1	6,558.1	6,558.1	38.4	131.2	90.69	-165.7	1,713.2	684.2	514.8	169.47	4.037		
7,800.0	6,574.1	6,557.1	6,557.1	41.0	131.1	90.55	-165.7	1,713.2	613.2	441.1	172.04	3.564		
7,900.0	6,573.0	6,556.0	6,556.0	43.6	131.1	90.42	-165.7	1,713.2	551.1	376.5	174.64	3.156		
8,000.0	6,571.9	6,554.9	6,554.9	46.2	131.1	90.28	-165.7	1,713.2	501.5	324.3	177.26	2.829		
8,100.0	6,570.9	6,553.9	6,553.9	48.9	131.1	90.15	-165.7	1,713.2	468.3	288.4	179.90	2.603		
8,200.0	6,569.8	6,552.8	6,552.8	51.6	131.1	90.01	-165.7	1,713.2	455.0	272.5	182.55	2.493		
8,211.1	6,569.7	6,552.7	6,552.7	51.9	131.1	90.00	-165.7	1,713.2	454.9	272.1	182.85			
8,300.0	6,568.7	6,551.7	6,551.7	54.2	131.0	89.88	-165.7	1,713.2	463.5	278.3	185.22	2.502		
8,400.0	6,567.7	6,550.7	6,550.7	56.9	131.0	89.75	-165.7	1,713.2	492.5	304.7	187.89	2.621		
8,500.0	6,566.6	6,549.6	6,549.6	59.6	131.0	89.61	-165.7	1,713.2	538.9	348.3	190.58	2.828		
8,600.0	6,565.5	6,548.5	6,548.5	62.4	131.0	89.48	-165.7	1,713.2	598.4	405.2	193.27	3.096		
8,700.0	6,564.5	6,547.5	6,547.5	65.1	130.9	89.34	-165.7	1,713.2	667.8	471.8	195.97	3.407		
8,800.0	6,563.4	6,546.4	6,546.4	67.8	130.9	89.21	-165.7	1,713.2	744.1	545.4	198.67	3.745		
8,900.0	6,562.3	6,545.3	6,545.3	70.6	130.9	89.08	-165.7	1,713.2	825.5	624.1	201.38	4.099		
9,000.0	6,561.3	6,544.3	6,544.3	73.3	130.9	88.94	-165.7	1,713.2	910.6	706.5	204.09	4.462		
9,100.0	6,560.2	6,543.2	6,543.2	76.1	130.9	88.81	-165.7	1,713.2	998.5	791.6	206.81	4.828		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	112.83	-163.9	389.5	422.8				
100.0	100.0	87.5	87.5	0.1	0.1	112.83	-164.0	389.4	422.6	422.3	0.23	1,848.603	
200.0	200.0	187.9	187.9	0.3	0.4	112.85	-164.0	389.2	422.4	421.7	0.70	601.295	
300.0	300.0	287.9	287.9	0.6	0.6	112.87	-164.1	389.0	422.2	421.0	1.19	354.360	
400.0	400.0	388.0	388.0	0.8	0.9	112.89	-164.1	388.7	421.9	420.3	1.68	251.110	
500.0	500.0	487.9	487.9	1.0	1.2	112.92	-164.2	388.4	421.7	419.5	2.17	194.557	
600.0	600.0	587.9	587.9	1.2	1.4	112.95	-164.4	388.1	421.5	418.8	2.65	158.776	
700.0	700.0	687.8	687.8	1.5	1.7	112.99	-164.5	387.9	421.3	418.2	3.14	134.144	
800.0	800.0	787.7	787.6	1.7	1.9	113.03	-164.7	387.6	421.1	417.5	3.62	116.271	
900.0	900.0	887.3	887.3	1.9	2.2	113.08	-165.0	387.3	421.0	416.9	4.09	102.851	
1,000.0	1,000.0	987.3	987.3	2.1	2.4	113.13	-165.3	387.1	421.0	416.4	4.56	92.231	
1,100.0	1,100.0	1,087.6	1,087.5	2.4	2.7	113.18	-165.7	386.9	420.9	415.8	5.04	83.457	
1,200.0	1,200.0	1,187.5	1,187.5	2.6	2.9	113.23	-166.0	386.6	420.7	415.2	5.53	76.134	
1,300.0	1,300.0	1,287.8	1,287.8	2.8	3.2	113.28	-166.2	386.3	420.6	414.6	6.01	69.932	
1,400.0	1,400.0	1,387.9	1,387.9	3.0	3.5	113.32	-166.4	386.0	420.4	413.9	6.50	64.655	
1,500.0	1,500.0	1,489.1	1,489.1	3.3	3.7	113.32	-166.3	385.7	420.0	413.1	6.94	60.495	
1,600.0	1,600.0	1,590.8	1,590.8	3.5	3.8	113.28	-165.7	385.2	419.3	412.0	7.33	57.194	
1,652.0	1,652.0	1,644.0	1,644.0	3.6	3.9	150.66	-165.3	384.8	419.1	411.6	7.54	55.614 CC, ES	
1,700.0	1,700.0	1,693.2	1,693.1	3.7	4.0	150.69	-164.8	384.3	419.3	411.6	7.72	54.280	
1,800.0	1,799.9	1,794.2	1,794.2	3.9	4.2	150.87	-163.7	383.0	421.1	413.0	8.13	51.790	
1,900.0	1,899.7	1,896.5	1,896.4	4.2	4.4	151.22	-162.4	381.3	424.9	416.3	8.55	49.664	
2,000.0	1,999.3	1,996.7	1,996.6	4.4	4.7	151.74	-161.3	379.2	430.5	421.6	8.99	47.896	
2,100.6	2,099.2	2,097.5	2,097.4	4.6	4.9	152.48	-160.7	376.7	438.5	429.1	9.44	46.435	
2,200.0	2,197.7	2,195.0	2,194.9	4.9	5.2	153.41	-160.9	374.0	447.7	437.8	9.92	45.118	
2,300.0	2,296.9	2,293.4	2,293.2	5.1	5.4	154.33	-161.3	371.4	457.3	446.9	10.41	43.928	
2,400.0	2,396.0	2,391.3	2,391.1	5.4	5.7	155.21	-161.9	369.0	467.3	456.4	10.90	42.874	
2,500.0	2,495.1	2,490.5	2,490.3	5.7	5.9	156.08	-162.6	366.7	477.5	466.1	11.39	41.917	
2,600.0	2,594.3	2,589.8	2,589.5	6.0	6.2	156.91	-163.4	364.4	487.8	475.9	11.89	41.043	
2,700.0	2,693.4	2,689.0	2,688.7	6.3	6.5	157.72	-164.3	361.9	498.2	485.8	12.38	40.244	
2,800.0	2,792.6	2,787.8	2,787.4	6.5	6.7	158.49	-165.1	359.6	508.8	495.9	12.87	39.517	
2,900.0	2,891.7	2,886.6	2,886.3	6.8	7.0	159.20	-165.8	357.5	519.5	506.1	13.37	38.854	
3,000.0	2,990.9	2,985.8	2,985.4	7.1	7.3	159.90	-166.5	355.3	530.3	516.4	13.87	38.244	
3,100.0	3,090.0	3,084.8	3,084.4	7.4	7.5	160.52	-167.0	353.4	541.2	526.9	14.36	37.687	
3,200.0	3,189.1	3,183.9	3,183.4	7.7	7.8	161.06	-166.9	351.8	552.3	537.4	14.86	37.175	
3,300.0	3,288.3	3,278.2	3,277.8	8.0	8.0	161.57	-167.2	350.5	563.7	548.4	15.33	36.772	
3,400.0	3,387.4	3,373.5	3,373.0	8.4	8.2	162.11	-168.4	349.6	576.1	560.3	15.78	36.495	
3,500.0	3,486.6	3,471.0	3,470.5	8.7	8.4	162.69	-170.3	348.8	589.0	572.7	16.23	36.293	
3,600.0	3,585.7	3,569.9	3,569.4	9.0	8.6	163.25	-172.2	348.1	602.0	585.3	16.67	36.114	
3,700.0	3,684.9	3,668.6	3,668.1	9.3	8.8	163.79	-174.2	347.3	615.1	598.0	17.11	35.942	
3,800.0	3,784.0	3,767.8	3,767.3	9.6	9.1	164.31	-176.2	346.6	628.3	610.7	17.56	35.778	
3,900.0	3,883.1	3,868.4	3,867.8	9.9	9.3	164.76	-177.7	346.1	641.4	623.4	18.00	35.630	
4,000.0	3,982.3	3,970.1	3,969.5	10.2	9.4	165.10	-178.0	346.1	654.2	635.8	18.39	35.580	
4,100.0	4,081.4	4,074.1	4,073.5	10.5	9.5	165.35	-177.4	346.1	666.5	647.8	18.72	35.610	
4,200.0	4,180.6	4,175.1	4,174.5	10.9	9.6	165.54	-175.9	346.0	678.2	659.1	19.05	35.605	
4,300.0	4,279.7	4,274.4	4,273.9	11.2	9.7	165.72	-174.4	345.9	689.8	670.4	19.39	35.578	
4,400.0	4,378.8	4,363.0	4,362.5	11.5	9.8	165.88	-173.4	346.1	702.0	682.3	19.70	35.641	
4,447.2	4,425.6	4,403.3	4,402.7	11.6	9.8	165.96	-173.4	346.6	708.4	688.6	19.84	35.716	
4,500.0	4,478.1	4,452.2	4,451.6	11.8	9.8	166.09	-173.6	347.4	715.5	695.5	19.99	35.788	
4,600.0	4,577.6	4,546.1	4,545.5	12.0	9.9	166.29	-174.8	349.3	727.0	706.8	20.26	35.879	
4,700.0	4,677.4	4,640.4	4,639.7	12.2	9.9	166.47	-176.9	351.2	735.8	715.3	20.54	35.831	
4,800.0	4,777.4	4,737.6	4,736.9	12.4	10.1	166.65	-180.2	353.1	742.0	721.2	20.81	35.653	

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

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Pad Sec.26-T5N-R64W - Bihain 26-4 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,822.6	4,800.0	4,761.1	4,760.4	12.4	10.1	129.30	-181.1	353.5	742.9	720.5	22.44	33.103		
4,900.0	4,877.4	4,842.3	4,841.5	12.5	10.2	129.42	-184.0	354.6	745.5	722.8	22.69	32.854		
5,000.0	4,977.4	4,950.6	4,949.8	12.7	10.4	129.59	-187.4	355.4	748.1	725.0	23.07	32.433		
5,100.0	5,077.4	5,059.1	5,058.1	12.9	10.6	129.78	-190.3	354.9	749.4	725.9	23.48	31.912		
5,200.0	5,177.4	5,163.5	5,162.5	13.1	10.9	129.99	-192.7	353.5	749.9	726.0	23.92	31.346		
5,300.0	5,277.4	5,264.7	5,263.7	13.3	11.1	130.22	-195.1	351.7	750.0	725.7	24.37	30.780		
5,400.0	5,377.4	5,359.3	5,358.2	13.5	11.3	130.45	-197.6	350.0	750.4	725.6	24.79	30.271		
5,500.0	5,477.4	5,454.7	5,453.6	13.7	11.5	130.61	-200.0	349.5	751.6	726.4	25.19	29.838		
5,600.0	5,577.4	5,553.3	5,552.2	13.9	11.7	130.71	-202.0	349.8	753.1	727.5	25.57	29.451		
5,700.0	5,677.4	5,652.0	5,650.9	14.1	11.9	130.78	-203.8	350.5	754.8	728.9	25.93	29.108		
5,800.0	5,777.4	5,750.2	5,749.1	14.3	12.0	130.82	-205.3	351.6	756.7	730.4	26.27	28.803		
5,840.8	5,818.1	5,790.2	5,789.0	14.4	12.1	130.83	-206.0	352.1	757.6	731.2	26.41	28.686		
5,850.0	5,827.4	5,800.0	5,798.8	14.4	12.1	40.83	-206.1	352.2	757.7	732.7	25.07	30.230		
5,900.0	5,877.3	5,848.6	5,847.5	14.4	12.2	40.98	-207.0	352.9	757.1	732.0	25.14	30.111		
5,950.0	5,927.0	5,897.9	5,896.7	14.5	12.2	41.42	-207.9	353.6	754.1	728.9	25.16	29.968		
6,000.0	5,976.2	5,946.3	5,945.1	14.6	12.3	42.13	-208.8	354.4	748.7	723.6	25.13	29.793		
6,050.0	6,024.8	5,994.1	5,992.9	14.6	12.4	43.14	-209.7	355.1	741.0	716.0	25.05	29.578		
6,100.0	6,072.4	6,042.2	6,041.0	14.6	12.5	44.48	-210.7	355.9	731.2	706.2	24.95	29.303		
6,150.0	6,119.0	6,089.4	6,088.1	14.7	12.5	46.14	-211.6	356.6	719.2	694.4	24.85	28.946		
6,200.0	6,164.3	6,134.8	6,133.6	14.7	12.6	48.12	-212.4	357.4	705.3	680.5	24.76	28.484		
6,250.0	6,208.1	6,178.7	6,177.5	14.7	12.7	50.45	-213.3	358.1	689.7	665.0	24.73	27.891		
6,300.0	6,250.2	6,221.1	6,219.8	14.7	12.7	53.13	-214.1	358.8	672.6	647.9	24.78	27.143		
6,350.0	6,290.5	6,261.8	6,260.5	14.7	12.8	56.15	-214.9	359.5	654.4	629.5	24.95	26.230		
6,400.0	6,328.7	6,300.6	6,299.3	14.8	12.8	59.47	-215.7	360.2	635.4	610.1	25.26	25.157		
6,450.0	6,364.8	6,336.9	6,335.6	14.8	12.9	63.04	-216.4	360.8	616.0	590.3	25.71	23.959		
6,500.0	6,398.6	6,371.0	6,369.7	14.9	13.0	66.79	-217.0	361.5	596.6	570.3	26.30	22.683		
6,550.0	6,429.8	6,402.9	6,401.5	15.2	13.0	70.64	-217.6	362.1	577.7	550.7	27.01	21.391		
6,600.0	6,458.4	6,433.0	6,431.6	15.6	13.0	74.52	-218.2	362.7	560.0	532.2	27.80	20.139		
6,650.0	6,484.3	6,460.4	6,459.0	16.2	13.1	78.23	-218.7	363.2	543.9	515.2	28.65	18.986		
6,700.0	6,507.3	6,484.8	6,483.5	16.8	13.1	81.64	-219.1	363.7	530.1	500.6	29.51	17.968		
6,750.0	6,527.4	6,506.4	6,505.0	17.4	13.2	84.64	-219.4	364.1	519.4	489.0	30.37	17.103		
6,800.0	6,544.5	6,525.0	6,523.6	18.2	13.2	87.13	-219.7	364.5	512.2	481.0	31.24	16.398		
6,850.0	6,558.4	6,540.4	6,539.0	19.0	13.2	89.01	-219.8	364.7	509.2	477.1	32.12	15.851		
6,859.4	6,560.7	6,542.9	6,541.5	19.2	13.2	89.29	-219.9	364.8	509.1	476.8	32.30	15.763		
6,900.0	6,569.2	6,552.4	6,551.0	19.9	13.2	90.21	-220.0	364.9	510.6	477.6	33.04	15.455		
6,950.0	6,576.7	6,561.1	6,559.7	20.8	13.2	90.72	-220.1	365.1	516.7	482.7	33.99	15.200		
7,000.0	6,581.0	6,566.4	6,565.0	21.8	13.2	90.48	-220.1	365.2	527.5	492.5	34.99	15.075		
7,048.9	6,582.0	6,568.3	6,566.9	22.8	13.2	89.54	-220.2	365.2	542.2	506.2	35.98	15.071 SF		
7,100.0	6,581.5	6,568.6	6,567.3	23.9	13.2	89.58	-220.2	365.2	561.8	524.7	37.06	15.159		
7,200.0	6,580.4	6,569.3	6,567.9	26.1	13.2	89.65	-220.2	365.2	610.7	571.4	39.28	15.549		
7,300.0	6,579.4	6,569.9	6,568.5	28.5	13.2	89.72	-220.2	365.2	671.1	629.5	41.60	16.133		
7,400.0	6,578.3	6,570.6	6,569.2	30.9	13.2	89.79	-220.2	365.3	740.1	696.1	44.00	16.820		
7,500.0	6,577.2	6,571.2	6,569.8	33.3	13.2	89.86	-220.2	365.3	815.5	769.1	46.47	17.551		
7,600.0	6,576.2	6,571.8	6,570.4	35.8	13.2	89.93	-220.2	365.3	895.8	846.8	48.99	18.287		
7,700.0	6,575.1	6,572.4	6,571.0	38.4	13.2	90.00	-220.2	365.3	979.7	928.2	51.55	19.007		

Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	Offset Datum

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

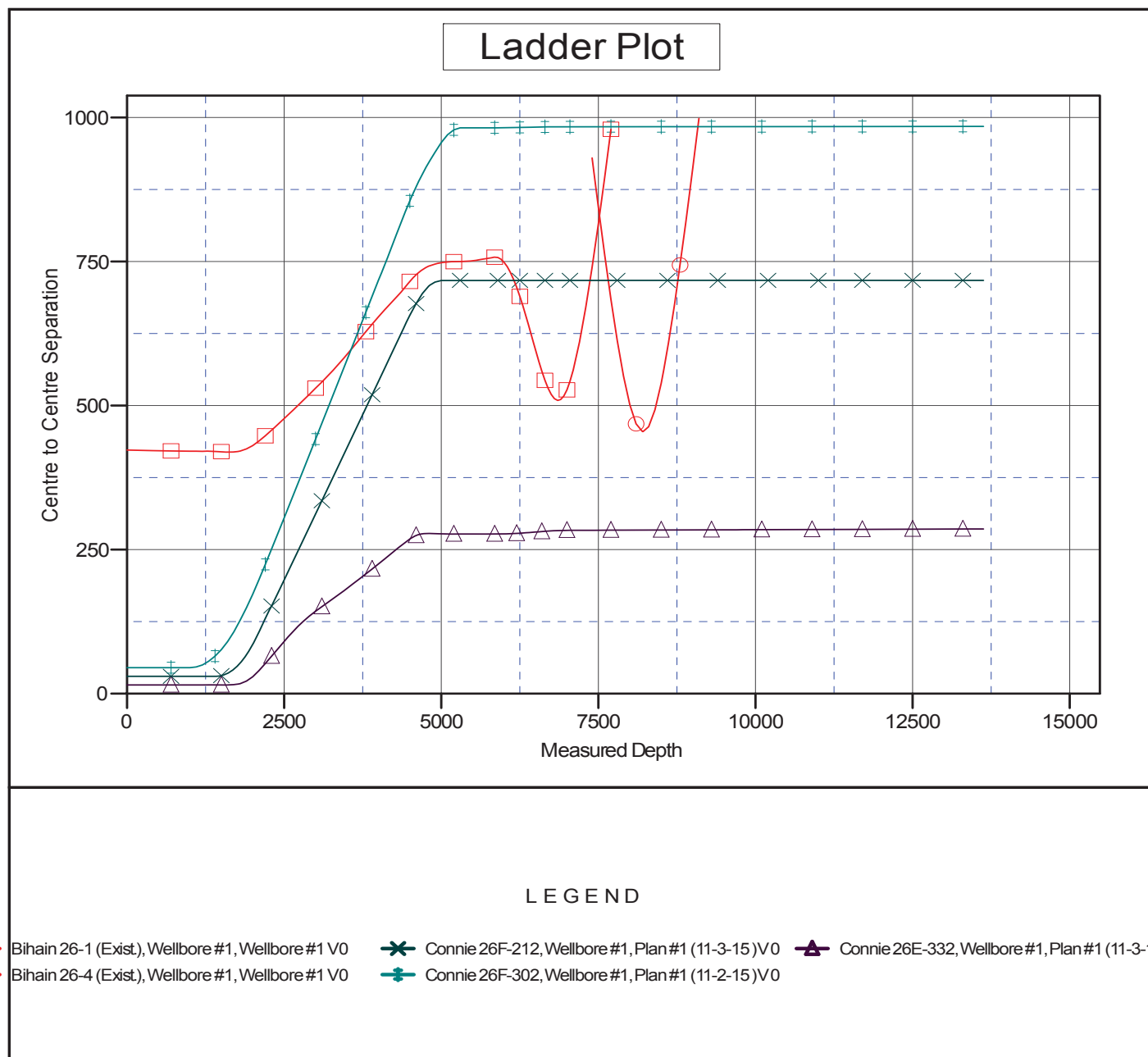
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: Connie 26E-202

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.63°



Company:	PETROLEUM DEVELOPMENT CORP DJ Basin	Local Co-ordinate Reference:	Well Connie 26E-202
Project:	SEC.26-T5N-R64W	TVD Reference:	WELL @ 4610.0ft (RKB - 13')
Reference Site:	Connie 5N64W26EF Pad Sec.26-T5N-R64W	MD Reference:	WELL @ 4610.0ft (RKB - 13')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Connie 26E-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (11-3-15)	Offset TVD Reference:	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 26E-202
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.63°

