

# **PETROLEUM DEVELOPMENT CORP DJ Basin**

**SEC.14-T5N-R65W**

**Clark 5N65W14EJ Pad Sec.14-T5N-R65W**

**Clark 14J-303**

**Wellbore #1**

**Plan #2 (7-08-16)**

## **Anticollision Report**

**08 July, 2016**

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Clark 14J-303
<b>Project:</b>	SEC.14-T5N-R65W	<b>TVD Reference:</b>	WELL @ 4629.0ft (Original Well Elev)
<b>Reference Site:</b>	Clark 5N65W14EJ Pad Sec.14-T5N-R65W	<b>MD Reference:</b>	WELL @ 4629.0ft (Original Well Elev)
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Clark 14J-303	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	US_EDM
<b>Reference Design:</b>	Plan #2 (7-08-16)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #2 (7-08-16)		
<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 800.0 ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.45 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	7/8/2016		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	15,284.8	Plan #2 (7-08-16) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
Brown 5N65W23 Pad Sec.23-T5N-R65W						
Brown 23P-201 - Wellbore #1 - Plan #1 (8-31-15)						Out of range
Brown 23P-221 - Wellbore #1 - Plan #1 (9-2-15)						Out of range
Brown 23P-321 - Wellbore #1 - Plan #1 (1-08-16)						Out of range
Clark 5N65W14EJ Pad Sec.14-T5N-R65W						
Clark 14J-203 - Wellbore #1 - Plan #2 (7-08-16)	400.0	400.0	15.0	13.1	7.803 CC	
Clark 14J-203 - Wellbore #1 - Plan #2 (7-08-16)	15,284.8	14,743.5	266.0	-86.6	0.754 Level 1, ES, SF	
Clark 14J-223 - Wellbore #1 - Plan #2 (7-08-16)	600.0	600.0	14.8	11.7	4.874 CC	
Clark 14J-223 - Wellbore #1 - Plan #2 (7-08-16)	15,284.8	15,179.0	283.1	-67.8	0.807 Level 1, ES, SF	
Clark 14J-343 - Wellbore #1 - Plan #2 (7-08-16)	200.0	200.0	30.1	29.3	36.416 CC, ES	
Clark 14J-343 - Wellbore #1 - Plan #2 (7-08-16)	15,284.8	14,858.5	510.1	149.3	1.414 Level 3, SF	
Clark 14M-343 - Wellbore #1 - Plan #2 (7-08-16)	600.0	599.0	29.8	26.8	9.849 CC, ES	
Clark 14M-343 - Wellbore #1 - Plan #2 (7-08-16)	15,284.8	15,176.9	690.9	326.5	1.896 SF	
Doll Pad Sec.23-T5N-R65W						
Doll 23-1 (Exist.) - Wellbore #1 - Wellbore #1	14,641.3	6,860.4	565.2	383.0	3.101 CC, ES	
Doll 23-1 (Exist.) - Wellbore #1 - Wellbore #1	14,700.0	6,860.3	568.2	384.6	3.095 SF	
Doll F23-20D - Doll F 23-20D (Exist) - Doll F23-20D	15,190.9	6,934.8	123.8	-78.1	0.613 Level 1, CC, ES, SF	
Existing Sec. 23-T5N-R65W						
Myers 14-21 (Exist.) - Wellbore #1 - Wellbore #1	8,153.5	6,867.1	664.1	618.8	14.677 CC, ES	
Myers 14-21 (Exist.) - Wellbore #1 - Wellbore #1	8,300.0	6,862.6	680.0	633.3	14.546 SF	
Roth 1 (Exist.) - Wellbore #1 - Wellbore #1	9,215.1	6,858.0	573.9	510.8	9.096 CC, ES	
Roth 1 (Exist.) - Wellbore #1 - Wellbore #1	9,300.0	6,853.0	580.1	515.4	8.974 SF	
Serena 1-14 (Exist.) - Wellbore #1 - Wellbore #1	10,677.9	6,798.1	595.6	503.2	6.443 CC	
Serena 1-14 (Exist.) - Wellbore #1 - Wellbore #1	10,700.0	6,798.1	596.0	503.1	6.414 ES	
Serena 1-14 (Exist.) - Wellbore #1 - Wellbore #1	10,800.0	6,798.3	608.0	512.9	6.391 SF	
Vetting 24-14 (P&A) - Wellbore #1 - Wellbore #1	12,267.0	6,828.3	508.7	381.7	4.006 CC, ES	
Vetting 24-14 (P&A) - Wellbore #1 - Wellbore #1	12,300.0	6,828.7	509.8	382.0	3.991 SF	
Existing Wells Sec.14-T5N-R65W						
Caesar 4-11 (Exist) - Wellbore #1 - Wellbore #1	5,713.1	5,450.3	230.5	176.2	4.249 CC, ES	
Caesar 4-11 (Exist) - Wellbore #1 - Wellbore #1	5,800.0	5,531.9	232.4	177.4	4.229 SF	
Oster-PM F 11-13 (Exist) - Wellbore #1 - Wellbore #1	6,863.9	6,522.2	786.0	602.9	4.292 CC, ES	
Oster-PM F 11-13 (Exist) - Wellbore #1 - Wellbore #1	6,900.0	6,550.5	786.7	603.3	4.288 SF	