

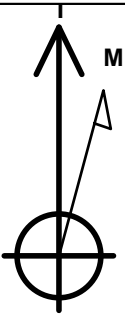
PETROLEUM DEVELOPMENT CORP Weld County CO

Well Name: Maxey 24Q-112

Surface Location: Maxey 24Q-HZ Pad Sec.24-T5N-R65W  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
Ground Elevation: 4635.0  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.0 0.0 1381915.92 3247776.49 40.378350 -104.610620  
RKB - 15' WELL @ 4650.0ft (RKB - 15')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape Point
SHL 340'FSL, 2423'FEL, SEC.24	1.0	0.0	0.0	Point
BHL 408'FSL, 1800'FEL, SEC.19	6600.0	33.5	5831.3	Point

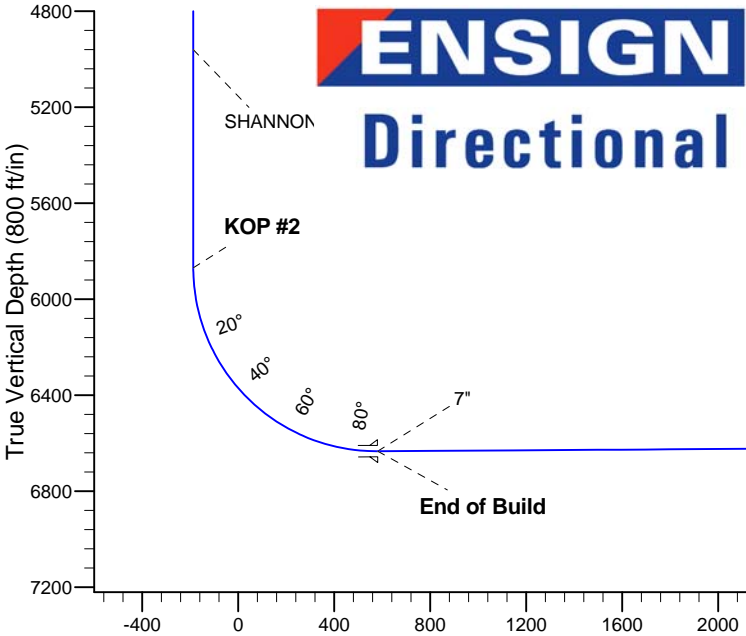
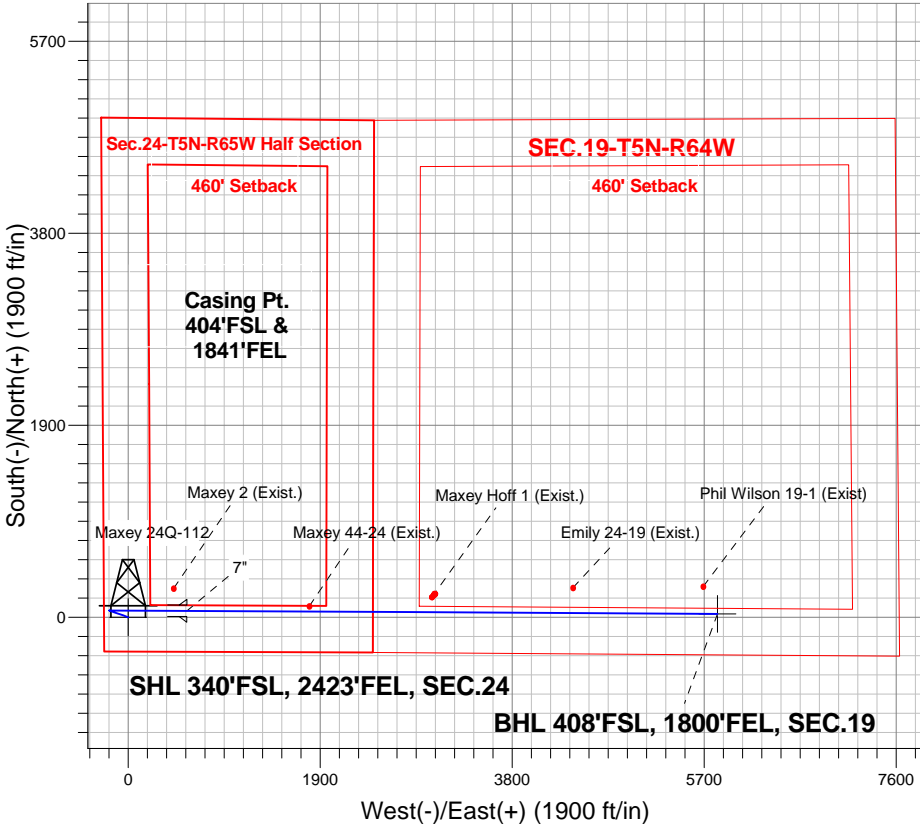


Azimuths to True North  
Magnetic North: 8.43°  
Magnetic Field  
Strength: 52863.1nT  
Dip Angle: 66.97°  
Date: 1/22/2014  
Model: IGRF2010

ANNOTATIONS

TVD	MD	Annotation
1500.0	1500.0	KOP #1
5870.0	5880.4	KOP #2
6633.9	7085.3	End of Build

Maxey 24Q-HZ Pad Sec.24-T5N-R65W  
Maxey 24Q-112  
Plan #3 (1-22-14)  
11:02, January 23 2014



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	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1818.8	6.38	289.98	1818.1	6.1	-16.6	2.00	289.98	-16.6	
4	3291.7	6.38	289.98	3281.9	61.9	-170.4	0.00	0.00	-170.0	
5	3610.4	0.00	0.00	3600.0	68.0	-187.0	2.00	180.00	-186.6	
6	5880.4	0.00	0.00	5870.0	68.0	-187.0	0.00	0.00	-186.6	
7	7085.3	90.37	90.33	6633.9	63.6	581.9	7.50	90.33	582.2	
8	12335.0	90.37	90.33	6600.0	33.5	5831.3	0.00	0.00	5831.4	BHL 408'FSL, 1800'FEL, SEC.19

BHL 408'FSL, 1800'FEL, SEC.19

Vertical Section at 89.67° (800 ft/in)



# **PETROLEUM DEVELOPMENT CORP Weld County CO**

**SEC.24-T5N-R65W**

**Maxey 24Q-HZ Pad Sec.24-T5N-R65W**

**Maxey 24Q-112**

**Wellbore #1**

**Plan: Plan #3 (1-22-14)**

## **Standard Planning Report**

**23 January, 2014**

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,818.8	6.38	289.98	1,818.1	6.1	-16.6	2.00	2.00	0.00	289.98	
3,291.7	6.38	289.98	3,281.9	61.9	-170.4	0.00	0.00	0.00	0.00	
3,610.4	0.00	0.00	3,600.0	68.0	-187.0	2.00	-2.00	0.00	180.00	
5,880.4	0.00	0.00	5,870.0	68.0	-187.0	0.00	0.00	0.00	0.00	
7,085.3	90.37	90.33	6,633.9	63.6	581.9	7.50	7.50	0.00	90.33	
12,335.0	90.37	90.33	6,600.0	33.5	5,831.3	0.00	0.00	0.00	0.00	BHL 408'FSL, 1800

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Project:</b>	SEC.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #3 (1-22-14)		

#### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
<b>SHL 340'FSL, 2423'FEL, SEC.24</b>									
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
<b>KOP #1</b>									
1,600.0	2.00	289.98	1,600.0	0.6	-1.6	-1.6	2.00	2.00	0.00
1,700.0	4.00	289.98	1,699.8	2.4	-6.6	-6.5	2.00	2.00	0.00
1,800.0	6.00	289.98	1,799.5	5.4	-14.7	-14.7	2.00	2.00	0.00
1,818.8	6.38	289.98	1,818.1	6.1	-16.6	-16.6	2.00	2.00	0.00
1,900.0	6.38	289.98	1,898.8	9.1	-25.1	-25.1	0.00	0.00	0.00
2,000.0	6.38	289.98	1,998.2	12.9	-35.6	-35.5	0.00	0.00	0.00
2,100.0	6.38	289.98	2,097.6	16.7	-46.0	-45.9	0.00	0.00	0.00
2,200.0	6.38	289.98	2,197.0	20.5	-56.4	-56.3	0.00	0.00	0.00
2,300.0	6.38	289.98	2,296.4	24.3	-66.9	-66.7	0.00	0.00	0.00
2,400.0	6.38	289.98	2,395.7	28.1	-77.3	-77.1	0.00	0.00	0.00
2,500.0	6.38	289.98	2,495.1	31.9	-87.7	-87.6	0.00	0.00	0.00
2,600.0	6.38	289.98	2,594.5	35.7	-98.2	-98.0	0.00	0.00	0.00
2,700.0	6.38	289.98	2,693.9	39.5	-108.6	-108.4	0.00	0.00	0.00
2,800.0	6.38	289.98	2,793.3	43.3	-119.0	-118.8	0.00	0.00	0.00
2,900.0	6.38	289.98	2,892.7	47.1	-129.5	-129.2	0.00	0.00	0.00
3,000.0	6.38	289.98	2,992.0	50.9	-139.9	-139.6	0.00	0.00	0.00
3,100.0	6.38	289.98	3,091.4	54.7	-150.4	-150.0	0.00	0.00	0.00
3,200.0	6.38	289.98	3,190.8	58.5	-160.8	-160.4	0.00	0.00	0.00
3,291.7	6.38	289.98	3,281.9	61.9	-170.4	-170.0	0.00	0.00	0.00
3,300.0	6.21	289.98	3,290.2	62.3	-171.2	-170.8	2.00	-2.00	0.00
3,400.0	4.21	289.98	3,389.8	65.4	-179.7	-179.4	2.00	-2.00	0.00
3,500.0	2.21	289.98	3,489.6	67.3	-185.0	-184.6	2.00	-2.00	0.00
3,530.4	1.60	289.98	3,520.0	67.6	-186.0	-185.6	2.00	-2.00	0.00
<b>PARKMAN</b>									
3,600.0	0.21	289.98	3,589.6	68.0	-187.0	-186.6	2.00	-2.00	0.00
3,610.4	0.00	0.00	3,600.0	68.0	-187.0	-186.6	2.00	-2.00	0.00
3,700.0	0.00	0.00	3,689.6	68.0	-187.0	-186.6	0.00	0.00	0.00
3,800.0	0.00	0.00	3,789.6	68.0	-187.0	-186.6	0.00	0.00	0.00
3,900.0	0.00	0.00	3,889.6	68.0	-187.0	-186.6	0.00	0.00	0.00
4,000.0	0.00	0.00	3,989.6	68.0	-187.0	-186.6	0.00	0.00	0.00
4,100.0	0.00	0.00	4,089.6	68.0	-187.0	-186.6	0.00	0.00	0.00
4,200.0	0.00	0.00	4,189.6	68.0	-187.0	-186.6	0.00	0.00	0.00
4,260.4	0.00	0.00	4,250.0	68.0	-187.0	-186.6	0.00	0.00	0.00
<b>SUSSEX</b>									

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Project:</b>	SEC.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #3 (1-22-14)		

#### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,300.0	0.00	0.00	4,289.6	68.0	-187.0	-186.6	0.00	0.00	0.00
4,400.0	0.00	0.00	4,389.6	68.0	-187.0	-186.6	0.00	0.00	0.00
4,500.0	0.00	0.00	4,489.6	68.0	-187.0	-186.6	0.00	0.00	0.00
4,600.0	0.00	0.00	4,589.6	68.0	-187.0	-186.6	0.00	0.00	0.00
4,700.0	0.00	0.00	4,689.6	68.0	-187.0	-186.6	0.00	0.00	0.00
4,800.0	0.00	0.00	4,789.6	68.0	-187.0	-186.6	0.00	0.00	0.00
4,900.0	0.00	0.00	4,889.6	68.0	-187.0	-186.6	0.00	0.00	0.00
4,970.4	0.00	0.00	4,960.0	68.0	-187.0	-186.6	0.00	0.00	0.00
<b>SHANNON</b>									
5,000.0	0.00	0.00	4,989.6	68.0	-187.0	-186.6	0.00	0.00	0.00
5,100.0	0.00	0.00	5,089.6	68.0	-187.0	-186.6	0.00	0.00	0.00
5,200.0	0.00	0.00	5,189.6	68.0	-187.0	-186.6	0.00	0.00	0.00
5,300.0	0.00	0.00	5,289.6	68.0	-187.0	-186.6	0.00	0.00	0.00
5,400.0	0.00	0.00	5,389.6	68.0	-187.0	-186.6	0.00	0.00	0.00
5,500.0	0.00	0.00	5,489.6	68.0	-187.0	-186.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,589.6	68.0	-187.0	-186.6	0.00	0.00	0.00
5,700.0	0.00	0.00	5,689.6	68.0	-187.0	-186.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,789.6	68.0	-187.0	-186.6	0.00	0.00	0.00
5,880.4	0.00	0.00	5,870.0	68.0	-187.0	-186.6	0.00	0.00	0.00
<b>KOP #2</b>									
5,900.0	1.47	90.33	5,889.6	68.0	-186.7	-186.4	7.50	7.50	0.00
6,000.0	8.97	90.33	5,989.1	67.9	-177.7	-177.3	7.50	7.50	0.00
6,100.0	16.47	90.33	6,086.6	67.8	-155.7	-155.3	7.50	7.50	0.00
6,200.0	23.97	90.33	6,180.3	67.6	-121.1	-120.7	7.50	7.50	0.00
6,300.0	31.47	90.33	6,268.8	67.4	-74.6	-74.2	7.50	7.50	0.00
6,400.0	38.97	90.33	6,350.4	67.0	-17.0	-16.6	7.50	7.50	0.00
6,500.0	46.47	90.33	6,423.8	66.6	50.8	51.2	7.50	7.50	0.00
6,539.0	49.40	90.33	6,450.0	66.5	79.8	80.2	7.50	7.50	0.00
<b>SHARON SPRINGS</b>									
6,600.0	53.97	90.33	6,487.8	66.2	127.6	128.0	7.50	7.50	0.00
6,700.0	61.47	90.33	6,541.2	65.7	212.1	212.4	7.50	7.50	0.00
6,800.0	68.97	90.33	6,583.0	65.2	302.8	303.2	7.50	7.50	0.00
6,900.0	76.47	90.33	6,612.7	64.6	398.2	398.6	7.50	7.50	0.00
7,000.0	83.97	90.33	6,629.7	64.1	496.7	497.0	7.50	7.50	0.00
7,085.3	90.37	90.33	6,633.9	63.6	581.8	582.2	7.50	7.50	0.00
<b>End of Build - 7"</b>									
7,100.0	90.37	90.33	6,633.8	63.5	596.5	596.9	0.02	0.02	0.00
7,200.0	90.37	90.33	6,633.2	62.9	696.5	696.9	0.00	0.00	0.00
7,300.0	90.37	90.33	6,632.5	62.4	796.5	796.9	0.00	0.00	0.00
7,400.0	90.37	90.33	6,631.9	61.8	896.5	896.9	0.00	0.00	0.00
7,500.0	90.37	90.33	6,631.2	61.2	996.5	996.9	0.00	0.00	0.00
7,600.0	90.37	90.33	6,630.6	60.6	1,096.5	1,096.8	0.00	0.00	0.00
7,700.0	90.37	90.33	6,629.9	60.1	1,196.5	1,196.8	0.00	0.00	0.00
7,800.0	90.37	90.33	6,629.3	59.5	1,296.5	1,296.8	0.00	0.00	0.00
7,900.0	90.37	90.33	6,628.6	58.9	1,396.5	1,396.8	0.00	0.00	0.00
8,000.0	90.37	90.33	6,628.0	58.4	1,496.5	1,496.8	0.00	0.00	0.00
8,100.0	90.37	90.33	6,627.3	57.8	1,596.5	1,596.8	0.00	0.00	0.00
8,200.0	90.37	90.33	6,626.7	57.2	1,696.5	1,696.8	0.00	0.00	0.00
8,300.0	90.37	90.33	6,626.1	56.6	1,796.5	1,796.8	0.00	0.00	0.00
8,400.0	90.37	90.33	6,625.4	56.1	1,896.5	1,896.8	0.00	0.00	0.00
8,500.0	90.37	90.33	6,624.8	55.5	1,996.5	1,996.8	0.00	0.00	0.00
8,600.0	90.37	90.33	6,624.1	54.9	2,096.5	2,096.8	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Project:</b>	SEC.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #3 (1-22-14)		

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,700.0	90.37	90.33	6,623.5	54.3	2,196.5	2,196.8	0.00	0.00	0.00
8,800.0	90.37	90.33	6,622.8	53.8	2,296.5	2,296.7	0.00	0.00	0.00
8,900.0	90.37	90.33	6,622.2	53.2	2,396.5	2,396.7	0.00	0.00	0.00
9,000.0	90.37	90.33	6,621.5	52.6	2,496.5	2,496.7	0.00	0.00	0.00
9,100.0	90.37	90.33	6,620.9	52.0	2,596.5	2,596.7	0.00	0.00	0.00
9,200.0	90.37	90.33	6,620.2	51.5	2,696.5	2,696.7	0.00	0.00	0.00
9,300.0	90.37	90.33	6,619.6	50.9	2,796.5	2,796.7	0.00	0.00	0.00
9,400.0	90.37	90.33	6,619.0	50.3	2,896.4	2,896.7	0.00	0.00	0.00
9,500.0	90.37	90.33	6,618.3	49.8	2,996.4	2,996.7	0.00	0.00	0.00
9,600.0	90.37	90.33	6,617.7	49.2	3,096.4	3,096.7	0.00	0.00	0.00
9,700.0	90.37	90.33	6,617.0	48.6	3,196.4	3,196.7	0.00	0.00	0.00
9,800.0	90.37	90.33	6,616.4	48.0	3,296.4	3,296.7	0.00	0.00	0.00
9,900.0	90.37	90.33	6,615.7	47.5	3,396.4	3,396.6	0.00	0.00	0.00
10,000.0	90.37	90.33	6,615.1	46.9	3,496.4	3,496.6	0.00	0.00	0.00
10,100.0	90.37	90.33	6,614.4	46.3	3,596.4	3,596.6	0.00	0.00	0.00
10,200.0	90.37	90.33	6,613.8	45.7	3,696.4	3,696.6	0.00	0.00	0.00
10,300.0	90.37	90.33	6,613.1	45.2	3,796.4	3,796.6	0.00	0.00	0.00
10,400.0	90.37	90.33	6,612.5	44.6	3,896.4	3,896.6	0.00	0.00	0.00
10,500.0	90.37	90.33	6,611.8	44.0	3,996.4	3,996.6	0.00	0.00	0.00
10,600.0	90.37	90.33	6,611.2	43.4	4,096.4	4,096.6	0.00	0.00	0.00
10,700.0	90.37	90.33	6,610.6	42.9	4,196.4	4,196.6	0.00	0.00	0.00
10,800.0	90.37	90.33	6,609.9	42.3	4,296.4	4,296.6	0.00	0.00	0.00
10,900.0	90.37	90.33	6,609.3	41.7	4,396.4	4,396.6	0.00	0.00	0.00
11,000.0	90.37	90.33	6,608.6	41.2	4,496.4	4,496.6	0.00	0.00	0.00
11,100.0	90.37	90.33	6,608.0	40.6	4,596.4	4,596.5	0.00	0.00	0.00
11,200.0	90.37	90.33	6,607.3	40.0	4,696.4	4,696.5	0.00	0.00	0.00
11,300.0	90.37	90.33	6,606.7	39.4	4,796.4	4,796.5	0.00	0.00	0.00
11,400.0	90.37	90.33	6,606.0	38.9	4,896.4	4,896.5	0.00	0.00	0.00
11,500.0	90.37	90.33	6,605.4	38.3	4,996.4	4,996.5	0.00	0.00	0.00
11,600.0	90.37	90.33	6,604.7	37.7	5,096.4	5,096.5	0.00	0.00	0.00
11,700.0	90.37	90.33	6,604.1	37.1	5,196.4	5,196.5	0.00	0.00	0.00
11,800.0	90.37	90.33	6,603.5	36.6	5,296.4	5,296.5	0.00	0.00	0.00
11,900.0	90.37	90.33	6,602.8	36.0	5,396.4	5,396.5	0.00	0.00	0.00
12,000.0	90.37	90.33	6,602.2	35.4	5,496.4	5,496.5	0.00	0.00	0.00
12,100.0	90.37	90.33	6,601.5	34.9	5,596.3	5,596.5	0.00	0.00	0.00
12,200.0	90.37	90.33	6,600.9	34.3	5,696.3	5,696.4	0.00	0.00	0.00
12,300.0	90.37	90.33	6,600.2	33.7	5,796.3	5,796.4	0.00	0.00	0.00
12,335.0	90.37	90.33	6,600.0	33.5	5,831.3	5,831.4	0.00	0.00	0.00
BHL 408'FSL, 1800'FEL, SEC.19									

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,085.3	6,633.9	7"	7	7-1/2

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Project:</b>	SEC.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #3 (1-22-14)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,530.4	3,520.0	PARKMAN				
4,260.4	4,250.0	SUSSEX				
4,970.4	4,960.0	SHANNON				
6,539.0	6,450.0	SHARON SPRINGS				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,500.0	1,500.0	0.0	0.0	KOP #1	
5,880.4	5,870.0	68.0	-187.0	KOP #2	
7,085.3	6,633.9	63.6	581.8	End of Build	



# **PETROLEUM DEVELOPMENT CORP Weld County CO**

**SEC.24-T5N-R65W**

**Maxey 24Q-HZ Pad Sec.24-T5N-R65W**

**Maxey 24Q-112**

**Wellbore #1**

**Plan #3 (1-22-14)**

## **Anticollision Report**

**23 January, 2014**





<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Project:</b>	SEC.24-T5N-R65W	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Reference Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #3 (1-22-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Emily 24-19 (Exist.) - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 7300-MWD												<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
11,100.0	6,608.0	6,587.0	6,587.0	130.8	7.4	-89.72	295.5	4,404.8	318.9	180.7	138.19	2.308	
11,200.0	6,607.3	6,586.3	6,586.3	133.6	7.4	-89.57	295.5	4,404.8	387.7	246.7	140.98	2.750	
11,300.0	6,606.7	6,585.7	6,585.7	136.4	7.4	-89.43	295.5	4,404.8	467.9	324.1	143.77	3.254	
11,400.0	6,606.0	6,585.0	6,585.0	139.2	7.4	-89.28	295.5	4,404.8	554.5	408.0	146.56	3.784	
11,500.0	6,605.4	6,584.4	6,584.4	142.0	7.4	-89.14	295.5	4,404.8	645.1	495.7	149.35	4.319	
11,600.0	6,604.7	6,583.7	6,583.7	144.8	7.4	-88.99	295.5	4,404.8	738.1	585.9	152.14	4.851	
11,700.0	6,604.1	6,583.1	6,583.1	147.5	7.4	-88.84	295.5	4,404.8	832.7	677.7	154.92	5.375	
11,800.0	6,603.5	6,582.5	6,582.5	150.3	7.4	-88.70	295.5	4,404.8	928.4	770.7	157.71	5.887	

Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 2 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 7300-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)			
0.0	0.0	0.0	0.0	0.0	0.0	57.47	287.8	451.3	535.5					
100.0	100.0	85.0	85.0	0.1	0.1	57.47	287.8	451.3	535.3	535.1	0.21	2,572.299		
200.0	200.0	185.0	185.0	0.3	0.2	57.47	287.8	451.3	535.3	534.8	0.55	981.768		
300.0	300.0	285.0	285.0	0.6	0.3	57.47	287.8	451.3	535.3	534.4	0.88	606.655		
400.0	400.0	385.0	385.0	0.8	0.4	57.47	287.8	451.3	535.3	534.1	1.22	438.944		
500.0	500.0	485.0	485.0	1.0	0.5	57.47	287.8	451.3	535.3	533.8	1.56	343.878		
600.0	600.0	585.0	585.0	1.2	0.7	57.47	287.8	451.3	535.3	533.4	1.89	282.660		
700.0	700.0	685.0	685.0	1.5	0.8	57.47	287.8	451.3	535.3	533.1	2.23	239.944		
800.0	800.0	785.0	785.0	1.7	0.9	57.47	287.8	451.3	535.3	532.7	2.57	208.444		
900.0	900.0	885.0	885.0	1.9	1.0	57.47	287.8	451.3	535.3	532.4	2.91	184.255		
1,000.0	1,000.0	985.0	985.0	2.1	1.1	57.47	287.8	451.3	535.3	532.1	3.24	165.096		
1,100.0	1,100.0	1,085.0	1,085.0	2.4	1.2	57.47	287.8	451.3	535.3	531.7	3.58	149.546		
1,200.0	1,200.0	1,185.0	1,185.0	2.6	1.3	57.47	287.8	451.3	535.3	531.4	3.92	136.674		
1,300.0	1,300.0	1,285.0	1,285.0	2.8	1.4	57.47	287.8	451.3	535.3	531.1	4.25	125.841		
1,400.0	1,400.0	1,385.0	1,385.0	3.0	1.6	57.47	287.8	451.3	535.3	530.7	4.59	116.600		
1,500.0	1,500.0	1,485.0	1,485.0	3.3	1.7	57.47	287.8	451.3	535.3	530.4	4.93	108.623		
1,600.0	1,600.0	1,585.0	1,585.0	3.5	1.8	127.62	287.8	451.3	536.4	531.1	5.26	102.057		
1,700.0	1,699.8	1,684.8	1,684.8	3.7	1.9	128.01	287.8	451.3	539.6	534.0	5.58	96.782		
1,800.0	1,799.5	1,784.5	1,784.5	3.9	2.0	128.65	287.8	451.3	545.0	539.1	5.90	92.393		
1,900.0	1,898.8	1,883.8	1,883.8	4.1	2.1	129.52	287.8	451.3	552.0	545.8	6.23	88.571		
2,000.0	1,998.2	1,983.2	1,983.2	4.4	2.2	130.39	287.8	451.3	559.1	552.6	6.57	85.080		
2,100.0	2,097.6	2,082.6	2,082.6	4.6	2.3	131.25	287.8	451.3	566.4	559.5	6.92	81.897		
2,200.0	2,197.0	2,182.0	2,182.0	4.9	2.5	132.08	287.8	451.3	573.8	566.6	7.26	78.996		
2,300.0	2,296.4	2,281.4	2,281.4	5.2	2.6	132.89	287.8	451.3	581.4	573.7	7.61	76.348		
2,400.0	2,395.7	2,380.7	2,380.7	5.4	2.7	133.67	287.8	451.3	589.0	581.0	7.97	73.928		
2,500.0	2,495.1	2,480.1	2,480.1	5.7	2.8	134.44	287.8	451.3	596.7	588.4	8.32	71.713		
2,600.0	2,594.5	2,579.5	2,579.5	6.0	2.9	135.19	287.8	451.3	604.6	595.9	8.68	69.681		
2,700.0	2,693.9	2,678.9	2,678.9	6.3	3.0	135.92	287.8	451.3	612.6	603.5	9.03	67.813		
2,800.0	2,793.3	2,778.3	2,778.3	6.5	3.1	136.63	287.8	451.3	620.6	611.2	9.39	66.093		
2,900.0	2,892.7	2,877.7	2,877.7	6.8	3.2	137.33	287.8	451.3	628.7	619.0	9.75	64.506		
3,000.0	2,992.0	2,977.0	2,977.0	7.1	3.3	138.00	287.8	451.3	637.0	626.9	10.10	63.038		
3,100.0	3,091.4	3,076.4	3,076.4	7.4	3.5	138.66	287.8	451.3	645.3	634.8	10.46	61.678		
3,200.0	3,190.8	3,175.8	3,175.8	7.7	3.6	139.30	287.8	451.3	653.7	642.9	10.82	60.416		
3,300.0	3,290.2	3,275.2	3,275.2	8.0	3.7	139.93	287.8	451.3	662.2	651.0	11.18	59.249		
3,400.0	3,389.8	3,374.8	3,374.8	8.2	3.8	140.52	287.8	451.3	669.2	657.7	11.49	58.236		
3,500.0	3,489.6	3,474.6	3,474.6	8.4	3.9	140.88	287.8	451.3	673.5	661.7	11.79	57.108		
3,600.0	3,589.6	3,574.6	3,574.6	8.6	4.0	141.01	287.8	451.3	675.1	663.0	12.08	55.871		
3,700.0	3,689.6	3,674.6	3,674.6	8.7	4.1	71.00	287.8	451.3	675.1	662.5	12.60	53.564		
3,800.0	3,789.6	3,774.6	3,774.6	8.9	4.2	71.00	287.8	451.3	675.1	662.2	12.92	52.242		
3,900.0	3,889.6	3,874.6	3,874.6	9.1	4.4	71.00	287.8	451.3	675.1	661.9	13.24	50.981		
4,000.0	3,989.6	3,974.6	3,974.6	9.3	4.5	71.00	287.8	451.3	675.1	661.6	13.56	49.776		
4,100.0	4,089.6	4,074.6	4,074.6	9.5	4.6	71.00	287.8	451.3	675.1	661.3	13.88	48.624		
4,200.0	4,189.6	4,174.6	4,174.6	9.7	4.7	71.00	287.8	451.3	675.1	660.9	14.21	47.522		
4,300.0	4,289.6	4,274.6	4,274.6	10.0	4.8	71.00	287.8	451.3	675.1	660.6	14.53	46.466		
4,400.0	4,389.6	4,374.6	4,374.6	10.2	4.9	71.00	287.8	451.3	675.1	660.3	14.85	45.455		
4,500.0	4,489.6	4,474.6	4,474.6	10.4	5.0	71.00	287.8	451.3	675.1	660.0	15.18	44.484		
4,600.0	4,589.6	4,574.6	4,574.6	10.6	5.1	71.00	287.8	451.3	675.1	659.6	15.50	43.553		
4,700.0	4,689.6	4,674.6	4,674.6	10.8	5.3	71.00	287.8	451.3	675.1	659.3	15.83	42.659		
4,800.0	4,789.6	4,774.6	4,774.6	11.0	5.4	71.00	287.8	451.3	675.1	659.0	16.15	41.799		
4,900.0	4,889.6	4,874.6	4,874.6	11.2	5.5	71.00	287.8	451.3	675.1	658.7	16.48	40.972		
5,000.0	4,989.6	4,974.6	4,974.6	11.4	5.6	71.00	287.8	451.3	675.1	658.3	16.80	40.176		

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Project:</b>	SEC.24-T5N-R65W	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Reference Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #3 (1-22-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 2 (Exist.) - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 7300-MWD												<b>Offset Well Error:</b>	0.0 ft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	5,089.6	5,074.6	5,074.6	11.6	5.7	71.00	287.8	451.3	675.1	658.0	17.13	39.410	
5,200.0	5,189.6	5,174.6	5,174.6	11.8	5.8	71.00	287.8	451.3	675.1	657.7	17.46	38.671	
5,300.0	5,289.6	5,274.6	5,274.6	12.1	5.9	71.00	287.8	451.3	675.1	657.4	17.79	37.959	
5,400.0	5,389.6	5,374.6	5,374.6	12.3	6.0	71.00	287.8	451.3	675.1	657.0	18.11	37.272	
5,500.0	5,489.6	5,474.6	5,474.6	12.5	6.2	71.00	287.8	451.3	675.1	656.7	18.44	36.608	
5,600.0	5,589.6	5,574.6	5,574.6	12.7	6.3	71.00	287.8	451.3	675.1	656.4	18.77	35.967	
5,700.0	5,689.6	5,674.6	5,674.6	12.9	6.4	71.00	287.8	451.3	675.1	656.0	19.10	35.348	
5,800.0	5,789.6	5,774.6	5,774.6	13.1	6.5	71.00	287.8	451.3	675.1	655.7	19.43	34.749	
5,900.0	5,889.6	5,874.6	5,874.6	13.3	6.6	-19.34	287.8	451.3	674.9	655.3	19.58	34.475	
6,000.0	5,989.1	5,974.1	5,974.1	13.5	6.7	-19.82	287.8	451.3	666.3	646.6	19.73	33.770	
6,100.0	6,086.6	6,071.6	6,071.6	13.6	6.8	-21.04	287.8	451.3	645.6	625.9	19.73	32.728	
6,200.0	6,180.3	6,165.3	6,165.3	13.7	6.9	-23.18	287.8	451.3	613.4	593.8	19.60	31.298	
6,300.0	6,268.8	6,253.8	6,253.8	13.9	7.0	-26.54	287.8	451.3	570.3	550.9	19.41	29.378	
6,400.0	6,350.4	6,335.4	6,335.4	14.1	7.1	-31.61	287.8	451.3	517.8	498.5	19.32	26.795	
6,500.0	6,423.8	6,408.8	6,408.8	14.6	7.2	-39.10	287.8	451.3	457.6	438.0	19.61	23.336	
6,600.0	6,487.8	6,472.8	6,472.8	15.3	7.3	-49.68	287.8	451.3	392.4	371.7	20.63	19.015	
6,700.0	6,541.2	6,526.2	6,526.2	16.3	7.3	-63.04	287.8	451.3	326.5	304.0	22.51	14.506	
6,800.0	6,583.0	6,568.0	6,568.0	17.6	7.4	-76.70	287.8	451.3	267.6	243.0	24.69	10.839	
6,900.0	6,612.7	6,597.7	6,597.7	19.3	7.4	-86.89	287.8	451.3	229.4	202.8	26.67	8.603	
6,952.9	6,623.3	6,608.3	6,608.3	20.3	7.4	-90.00	287.8	451.3	223.5	195.8	27.69	8.071 CC, ES	
7,000.0	6,629.7	6,614.7	6,614.7	21.2	7.4	-91.26	287.8	451.3	228.3	199.7	28.57	7.990 SF	
7,100.0	6,633.8	6,618.8	6,618.8	23.2	7.4	-89.76	287.8	451.3	267.2	236.6	30.64	8.720	
7,200.0	6,633.2	6,618.2	6,618.2	25.4	7.4	-89.59	287.8	451.3	332.7	299.9	32.83	10.134	
7,300.0	6,632.5	6,617.5	6,617.5	27.7	7.4	-89.43	287.8	451.3	412.3	377.2	35.13	11.736	
7,400.0	6,631.9	6,616.9	6,616.9	30.1	7.4	-89.26	287.8	451.3	499.3	461.8	37.52	13.308	
7,500.0	6,631.2	6,616.2	6,616.2	32.5	7.4	-89.10	287.8	451.3	590.4	550.4	39.97	14.771	
7,600.0	6,630.6	6,615.6	6,615.6	35.0	7.4	-88.93	287.8	451.3	684.0	641.5	42.48	16.104	
7,700.0	6,629.9	6,614.9	6,614.9	37.6	7.4	-88.76	287.8	451.3	779.2	734.2	45.02	17.306	
7,800.0	6,629.3	6,614.3	6,614.3	40.2	7.4	-88.60	287.8	451.3	875.5	827.9	47.61	18.390	
7,900.0	6,628.6	6,613.6	6,613.6	42.8	7.4	-88.43	287.8	451.3	972.5	922.3	50.22	19.366	

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Project:</b>	SEC.24-T5N-R65W	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Reference Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #3 (1-22-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24P-232 - Wellbore #1 - Plan #3 (1-22-14)													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	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.02	-90.02	0.0	-61.3	61.3				
100.0	100.0	100.0	100.0	0.1	0.1	-90.02	-90.02	0.0	-61.3	61.3	61.1	0.22	272.703	
200.0	200.0	200.0	200.0	0.3	0.3	-90.02	-90.02	0.0	-61.3	61.3	60.6	0.67	90.901 CC	
300.0	300.0	299.6	299.6	0.6	0.6	-88.43	-88.43	1.7	-61.6	61.6	60.5	1.13	54.761 ES	
400.0	400.0	398.9	398.8	0.8	0.8	-83.82	-83.82	6.8	-62.5	62.9	61.3	1.59	39.683	
500.0	500.0	497.8	497.2	1.0	1.0	-76.66	-76.66	15.2	-64.1	65.9	63.9	2.05	32.178	
600.0	600.0	595.9	594.7	1.2	1.3	-67.91	-67.91	26.9	-66.2	71.6	69.1	2.52	28.473	
700.0	700.0	693.9	691.6	1.5	1.6	-58.94	-58.94	41.5	-68.8	80.8	77.8	3.00	26.942	
800.0	800.0	792.7	789.1	1.7	2.0	-51.62	-51.62	56.7	-71.6	92.0	88.5	3.49	26.342	
900.0	900.0	891.5	886.6	1.9	2.3	-45.95	-45.95	72.0	-74.4	104.4	100.4	4.01	26.034	
1,000.0	1,000.0	990.2	984.2	2.1	2.6	-41.50	-41.50	87.2	-77.2	117.5	113.0	4.54	25.874	
1,100.0	1,100.0	1,089.0	1,081.7	2.4	3.0	-37.96	-37.96	102.5	-80.0	131.3	126.2	5.09	25.797	
1,200.0	1,200.0	1,187.8	1,179.2	2.6	3.4	-35.10	-35.10	117.7	-82.7	145.4	139.7	5.64	25.769	
1,300.0	1,300.0	1,286.5	1,276.8	2.8	3.7	-32.74	-32.74	133.0	-85.5	159.8	153.6	6.20	25.770	
1,400.0	1,400.0	1,385.3	1,374.3	3.0	4.1	-30.78	-30.78	148.2	-88.3	174.4	167.7	6.76	25.788	
1,500.0	1,500.0	1,484.0	1,471.8	3.3	4.4	-29.12	-29.12	163.5	-91.1	189.2	181.9	7.33	25.817	
1,600.0	1,600.0	1,582.9	1,569.5	3.5	4.8	42.47	42.47	178.8	-93.8	202.9	195.7	7.24	28.024	
1,700.0	1,699.8	1,681.9	1,667.3	3.7	5.1	44.49	44.49	194.0	-96.6	214.3	206.6	7.68	27.890	
1,800.0	1,799.5	1,781.0	1,765.1	3.9	5.5	46.95	46.95	209.3	-99.4	223.5	215.4	8.12	27.513	
1,900.0	1,898.8	1,880.0	1,862.9	4.1	5.9	49.75	49.75	224.6	-102.2	231.7	223.1	8.58	27.015	
2,000.0	1,998.2	1,979.1	1,960.7	4.4	6.2	52.39	52.39	239.9	-105.0	240.3	231.3	9.04	26.580	
2,100.0	2,097.6	2,078.1	2,058.6	4.6	6.6	54.84	54.84	255.2	-107.8	249.4	239.9	9.52	26.202	
2,200.0	2,197.0	2,177.1	2,156.4	4.9	6.9	57.11	57.11	270.5	-110.5	259.0	249.0	10.01	25.870	
2,300.0	2,296.4	2,276.2	2,254.2	5.2	7.3	59.23	59.23	285.8	-113.3	268.9	258.4	10.51	25.576	
2,400.0	2,395.7	2,375.2	2,352.0	5.4	7.7	61.19	61.19	301.1	-116.1	279.2	268.2	11.03	25.313	
2,500.0	2,495.1	2,474.2	2,449.8	5.7	8.0	63.01	63.01	316.4	-118.9	289.8	278.2	11.55	25.079	
2,600.0	2,594.5	2,573.2	2,547.6	6.0	8.4	64.70	64.70	331.7	-121.7	300.6	288.5	12.09	24.868	
2,700.0	2,693.9	2,672.3	2,645.4	6.3	8.7	66.27	66.27	347.0	-124.5	311.7	299.1	12.63	24.678	
2,800.0	2,793.3	2,771.3	2,743.2	6.5	9.1	67.74	67.74	362.3	-127.3	323.0	309.8	13.18	24.506	
2,900.0	2,892.7	2,870.3	2,841.0	6.8	9.5	69.10	69.10	377.6	-130.0	334.5	320.8	13.74	24.350	
3,000.0	2,992.0	2,969.4	2,938.8	7.1	9.8	70.38	70.38	392.9	-132.8	346.2	331.9	14.30	24.209	
3,100.0	3,091.4	3,068.4	3,036.6	7.4	10.2	71.57	71.57	408.2	-135.6	358.0	343.2	14.87	24.081	
3,200.0	3,190.8	3,167.4	3,134.4	7.7	10.5	72.69	72.69	423.4	-138.4	370.0	354.6	15.44	23.965	
3,300.0	3,290.2	3,266.5	3,232.2	8.0	10.9	73.75	73.75	438.7	-141.2	382.1	366.1	16.01	23.864	
3,400.0	3,389.8	3,365.5	3,330.0	8.2	11.3	74.69	74.69	454.0	-144.0	394.9	378.4	16.51	23.923	
3,500.0	3,489.6	3,464.6	3,427.8	8.4	11.6	75.14	75.14	469.3	-146.7	408.6	391.6	16.97	24.082	
3,600.0	3,589.6	3,563.5	3,525.5	8.6	12.0	75.12	75.12	484.6	-149.5	423.2	405.8	17.39	24.335	
3,700.0	3,689.6	3,662.2	3,623.0	8.7	12.3	4.59	4.59	499.9	-152.3	438.3	418.2	20.16	21.742	
3,800.0	3,789.6	3,761.0	3,720.6	8.9	12.7	4.08	4.08	515.1	-155.1	453.5	432.8	20.75	21.860	
3,900.0	3,889.6	3,859.7	3,818.1	9.1	13.1	3.61	3.61	530.4	-157.9	468.8	447.4	21.33	21.974	
4,000.0	3,989.6	3,958.5	3,915.6	9.3	13.4	3.16	3.16	545.6	-160.6	484.0	462.1	21.92	22.083	
4,100.0	4,089.6	4,057.3	4,013.2	9.5	13.8	2.74	2.74	560.9	-163.4	499.3	476.8	22.50	22.187	
4,200.0	4,189.6	4,156.0	4,110.7	9.7	14.2	2.35	2.35	576.1	-166.2	514.6	491.5	23.09	22.288	
4,300.0	4,289.6	4,254.8	4,208.3	10.0	14.5	1.97	1.97	591.4	-169.0	530.0	506.3	23.68	22.385	
4,400.0	4,389.6	4,353.5	4,305.8	10.2	14.9	1.62	1.62	606.6	-171.7	545.3	521.1	24.26	22.478	
4,500.0	4,489.6	4,452.3	4,403.3	10.4	15.2	1.29	1.29	621.9	-174.5	560.7	535.8	24.85	22.567	
4,600.0	4,589.6	4,551.1	4,500.9	10.6	15.6	0.98	0.98	637.1	-177.3	576.1	550.7	25.43	22.653	
4,700.0	4,689.6	4,649.8	4,598.4	10.8	16.0	0.68	0.68	652.4	-180.1	591.5	565.5	26.02	22.736	
4,800.0	4,789.6	4,748.6	4,695.9	11.0	16.3	0.40	0.40	667.6	-182.8	606.9	580.3	26.60	22.816	
4,900.0	4,889.6	4,847.3	4,793.5	11.2	16.7	0.13	0.13	682.9	-185.6	622.3	595.2	27.19	22.893	
5,000.0	4,989.6	4,946.1	4,891.0	11.4	17.0	-0.13	-0.13	698.1	-188.4	637.8	610.0	27.77	22.967	

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Project:</b>	SEC.24-T5N-R65W	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Reference Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #3 (1-22-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24P-232 - Wellbore #1 - Plan #3 (1-22-14)													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	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,100.0	5,089.6	5,044.9	4,988.5	11.6	17.4	-0.37	713.4	-191.2	653.3	624.9	28.35	23.039		
5,200.0	5,189.6	5,154.5	5,096.8	11.8	17.8	-0.62	729.9	-194.2	668.4	639.5	28.95	23.086		
5,300.0	5,289.6	5,283.8	5,225.2	12.1	18.1	-0.84	745.0	-196.9	680.1	650.6	29.52	23.041		
5,400.0	5,389.6	5,414.2	5,355.3	12.3	18.4	-0.97	754.4	-198.6	687.3	657.3	30.00	22.912		
5,500.0	5,489.6	5,545.3	5,486.3	12.5	18.6	-1.02	758.0	-199.3	690.1	659.7	30.42	22.688		
5,600.0	5,589.6	5,648.5	5,589.6	12.7	18.7	-1.02	758.0	-199.3	690.1	659.3	30.78	22.423		
5,700.0	5,689.6	5,748.5	5,689.6	12.9	18.8	-1.02	758.0	-199.3	690.1	659.0	31.14	22.162		
5,800.0	5,789.6	5,848.5	5,789.6	13.1	19.0	-1.02	758.0	-199.3	690.1	658.6	31.50	21.906		
5,858.6	5,848.2	5,907.2	5,848.2	13.2	19.1	-91.39	758.0	-199.3	690.1	662.8	27.28	25.300		
5,900.0	5,889.6	5,948.5	5,889.6	13.3	19.1	-91.37	758.0	-199.3	690.1	662.7	27.45	25.142		
6,000.0	5,989.1	6,048.4	5,989.4	13.5	19.3	-92.10	758.0	-199.2	690.4	662.6	27.77	24.860		
6,100.0	6,086.6	6,151.8	6,092.4	13.6	19.4	-93.25	757.9	-190.8	691.0	663.0	28.01	24.670		
6,200.0	6,180.3	6,257.3	6,195.3	13.7	19.5	-94.35	757.8	-167.9	691.9	663.7	28.24	24.501		
6,300.0	6,268.8	6,364.8	6,295.9	13.9	19.6	-95.38	757.6	-130.3	693.0	664.5	28.53	24.290		
6,400.0	6,350.4	6,474.3	6,391.9	14.1	19.7	-96.32	757.3	-77.8	694.2	665.2	28.99	23.946		
6,500.0	6,423.8	6,585.7	6,480.9	14.6	19.8	-97.15	757.0	-10.9	695.4	665.7	29.76	23.370		
6,600.0	6,487.8	6,698.9	6,560.4	15.3	19.9	-97.85	756.5	69.5	696.6	665.6	31.01	22.460		
6,700.0	6,541.2	6,813.5	6,627.8	16.3	20.2	-98.40	756.0	162.0	697.6	664.6	32.90	21.200		
6,800.0	6,583.0	6,929.2	6,681.1	17.6	20.8	-98.79	755.5	264.6	698.3	662.8	35.50	19.672		
6,900.0	6,612.7	7,045.6	6,718.5	19.3	21.9	-99.00	754.9	374.7	698.7	660.0	38.77	18.021		
7,000.0	6,629.7	7,162.4	6,738.8	21.2	23.7	-99.03	754.3	489.6	698.8	656.2	42.64	16.390		
7,095.2	6,634.6	7,268.6	6,742.4	23.1	25.6	-98.88	753.7	595.7	698.6	651.9	46.62	14.983		
7,100.0	6,633.8	7,273.5	6,742.4	23.2	25.7	-98.94	753.7	600.6	698.7	651.9	46.81	14.927		
7,200.0	6,633.2	7,373.5	6,742.1	25.4	27.8	-98.97	753.2	700.6	698.8	647.7	51.11	13.673		
7,300.0	6,632.5	7,473.5	6,741.8	27.7	29.9	-99.00	752.6	800.6	698.9	643.2	55.62	12.564		
7,400.0	6,631.9	7,573.5	6,741.5	30.1	32.2	-99.02	752.1	900.6	699.0	638.6	60.31	11.589		
7,500.0	6,631.2	7,673.5	6,741.2	32.5	34.6	-99.05	751.6	1,000.6	699.1	633.9	65.13	10.732		
7,600.0	6,630.6	7,773.5	6,740.8	35.0	37.0	-99.07	751.0	1,100.6	699.1	629.1	70.06	9.979		
7,700.0	6,629.9	7,873.5	6,740.5	37.6	39.5	-99.10	750.5	1,200.6	699.2	624.1	75.08	9.313		
7,800.0	6,629.3	7,973.5	6,740.2	40.2	42.0	-99.13	749.9	1,300.6	699.3	619.2	80.16	8.724		
7,900.0	6,628.6	8,073.5	6,739.9	42.8	44.5	-99.15	749.4	1,400.6	699.4	614.1	85.31	8.199		
8,000.0	6,628.0	8,173.5	6,739.6	45.4	47.1	-99.18	748.9	1,500.6	699.5	609.0	90.49	7.730		
8,100.0	6,627.3	8,273.5	6,739.3	48.1	49.7	-99.21	748.3	1,600.5	699.6	603.9	95.72	7.309		
8,200.0	6,626.7	8,373.5	6,739.0	50.8	52.4	-99.23	747.8	1,700.5	699.7	598.7	100.98	6.929		
8,300.0	6,626.1	8,473.5	6,738.6	53.4	55.0	-99.26	747.3	1,800.5	699.8	593.5	106.27	6.585		
8,400.0	6,625.4	8,573.5	6,738.3	56.1	57.7	-99.28	746.7	1,900.5	699.9	588.3	111.58	6.272		
8,500.0	6,624.8	8,673.5	6,738.0	58.9	60.4	-99.31	746.2	2,000.5	699.9	583.0	116.92	5.987		
8,600.0	6,624.1	8,773.5	6,737.7	61.6	63.0	-99.34	745.7	2,100.5	700.0	577.8	122.27	5.726		
8,700.0	6,623.5	8,873.5	6,737.4	64.3	65.7	-99.36	745.1	2,200.5	700.1	572.5	127.63	5.486		
8,800.0	6,622.8	8,973.5	6,737.1	67.0	68.4	-99.39	744.6	2,300.5	700.2	567.2	133.01	5.264		
8,900.0	6,622.2	9,073.5	6,736.8	69.8	71.2	-99.42	744.1	2,400.5	700.3	561.9	138.40	5.060		
9,000.0	6,621.5	9,173.5	6,736.4	72.5	73.9	-99.44	743.5	2,500.5	700.4	556.6	143.80	4.871		
9,100.0	6,620.9	9,273.5	6,736.1	75.3	76.6	-99.47	743.0	2,600.5	700.5	551.3	149.21	4.695		
9,200.0	6,620.2	9,373.5	6,735.8	78.0	79.3	-99.50	742.4	2,700.5	700.6	546.0	154.63	4.531		
9,300.0	6,619.6	9,473.5	6,735.5	80.8	82.1	-99.52	741.9	2,800.5	700.7	540.6	160.06	4.378		
9,400.0	6,619.0	9,573.5	6,735.2	83.5	84.8	-99.55	741.4	2,900.5	700.8	535.3	165.49	4.235		
9,500.0	6,618.3	9,673.5	6,734.9	86.3	87.6	-99.57	740.8	3,000.5	700.9	529.9	170.93	4.100		
9,600.0	6,617.7	9,773.5	6,734.6	89.1	90.3	-99.60	740.3	3,100.5	701.0	524.6	176.37	3.974		
9,700.0	6,617.0	9,873.5	6,734.2	91.8	93.1	-99.63	739.8	3,200.5	701.0	519.2	181.82	3.856		
9,800.0	6,616.4	9,973.5	6,733.9	94.6	95.8	-99.65	739.2	3,300.5	701.1	513.9	187.27	3.744		
9,900.0	6,615.7	10,073.5	6,733.6	97.4	98.6	-99.68	738.7	3,400.5	701.2	508.5	192.72	3.639		

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

Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24P-232 - Wellbore #1 - Plan #3 (1-22-14)													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)			
10,000.0	6,615.1	10,173.5	6,733.3	100.2	101.4	-99.70	738.2	3,500.5	701.3	503.1	198.18	3.539		
10,100.0	6,614.4	10,273.5	6,733.0	102.9	104.1	-99.73	737.6	3,600.5	701.4	497.8	203.64	3.444		
10,200.0	6,613.8	10,373.5	6,732.7	105.7	106.9	-99.76	737.1	3,700.5	701.5	492.4	209.11	3.355		
10,300.0	6,613.1	10,473.5	6,732.4	108.5	109.7	-99.78	736.6	3,800.5	701.6	487.0	214.57	3.270		
10,400.0	6,612.5	10,573.5	6,732.0	111.3	112.4	-99.81	736.0	3,900.5	701.7	481.7	220.04	3.189		
10,500.0	6,611.8	10,673.5	6,731.7	114.1	115.2	-99.84	735.5	4,000.5	701.8	476.3	225.51	3.112		
10,600.0	6,611.2	10,773.5	6,731.4	116.8	118.0	-99.86	734.9	4,100.5	701.9	470.9	230.98	3.039		
10,700.0	6,610.6	10,873.5	6,731.1	119.6	120.8	-99.89	734.4	4,200.5	702.0	465.5	236.45	2.969		
10,800.0	6,609.9	10,973.5	6,730.8	122.4	123.6	-99.91	733.9	4,300.5	702.1	460.1	241.93	2.902		
10,900.0	6,609.3	11,073.5	6,730.5	125.2	126.3	-99.94	733.3	4,400.5	702.2	454.8	247.40	2.838		
11,000.0	6,608.6	11,173.5	6,730.2	128.0	129.1	-99.97	732.8	4,500.5	702.3	449.4	252.88	2.777		
11,100.0	6,608.0	11,273.5	6,729.8	130.8	131.9	-99.99	732.3	4,600.5	702.4	444.0	258.36	2.719		
11,200.0	6,607.3	11,373.5	6,729.5	133.6	134.7	-100.02	731.7	4,700.5	702.4	438.6	263.84	2.662		
11,300.0	6,606.7	11,473.5	6,729.2	136.4	137.5	-100.04	731.2	4,800.5	702.5	433.2	269.32	2.609		
11,400.0	6,606.0	11,573.5	6,728.9	139.2	140.3	-100.07	730.7	4,900.5	702.6	427.8	274.80	2.557		
11,500.0	6,605.4	11,673.5	6,728.6	142.0	143.0	-100.10	730.1	5,000.5	702.7	422.5	280.28	2.507		
11,600.0	6,604.7	11,773.5	6,728.3	144.8	145.8	-100.12	729.6	5,100.5	702.8	417.1	285.76	2.460		
11,700.0	6,604.1	11,873.5	6,728.0	147.5	148.6	-100.15	729.1	5,200.5	702.9	411.7	291.24	2.414		
11,800.0	6,603.5	11,973.5	6,727.6	150.3	151.4	-100.18	728.5	5,300.5	703.0	406.3	296.72	2.369		
11,900.0	6,602.8	12,073.5	6,727.3	153.1	154.2	-100.20	728.0	5,400.5	703.1	400.9	302.20	2.327		
12,000.0	6,602.2	12,173.5	6,727.0	155.9	157.0	-100.23	727.5	5,500.5	703.2	395.5	307.68	2.285		
12,100.0	6,601.5	12,273.5	6,726.7	158.7	159.8	-100.25	726.9	5,600.4	703.3	390.1	313.17	2.246		
12,200.0	6,600.9	12,373.5	6,726.4	161.5	162.6	-100.28	726.4	5,700.4	703.4	384.8	318.65	2.207		
12,300.0	6,600.2	12,473.5	6,726.1	164.3	165.4	-100.31	725.8	5,800.4	703.5	379.4	324.13	2.170		
12,310.8	6,600.2	12,484.3	6,726.0	164.6	165.7	-100.31	725.8	5,811.3	703.5	378.8	324.72	2.166		
12,335.0	6,600.0	12,498.6	6,726.0	165.3	166.1	-100.31	725.7	5,825.6	703.6	377.8	325.78	2.160 SF		



Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24P-332 - Wellbore #1 - Plan #3 (1-22-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-89.99	0.0	-30.6	30.6					
100.0	100.0	100.0	100.0	0.1	0.1	-89.99	0.0	-30.6	30.6	30.4	0.22	136.352		
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-30.6	30.6	30.0	0.67	45.451		
300.0	300.0	300.0	300.0	0.6	0.6	-89.99	0.0	-30.6	30.6	29.5	1.12	27.270		
400.0	400.0	400.0	400.0	0.8	0.8	-89.99	0.0	-30.6	30.6	29.1	1.57	19.479		
500.0	500.0	500.0	500.0	1.0	1.0	-89.99	0.0	-30.6	30.6	28.6	2.02	15.150		
600.0	600.0	600.0	600.0	1.2	1.2	-89.99	0.0	-30.6	30.6	28.2	2.47	12.396		
700.0	700.0	700.0	700.0	1.5	1.5	-89.99	0.0	-30.6	30.6	27.7	2.92	10.489		
800.0	800.0	800.0	800.0	1.7	1.7	-89.99	0.0	-30.6	30.6	27.3	3.37	9.090		
900.0	900.0	900.0	900.0	1.9	1.9	-89.99	0.0	-30.6	30.6	26.8	3.82	8.021		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-89.99	0.0	-30.6	30.6	26.4	4.27	7.176 CC, ES		
1,100.0	1,100.0	1,099.6	1,099.5	2.4	2.4	-87.06	1.6	-31.3	31.3	26.6	4.72	6.642		
1,200.0	1,200.0	1,198.9	1,198.7	2.6	2.6	-79.11	6.4	-33.2	33.9	28.7	5.17	6.555		
1,300.0	1,300.0	1,297.8	1,297.2	2.8	2.8	-68.57	14.3	-36.5	39.3	33.7	5.62	6.985		
1,400.0	1,400.0	1,397.3	1,396.2	3.0	3.1	-59.55	23.7	-40.3	46.9	40.8	6.08	7.712		
1,500.0	1,500.0	1,496.7	1,495.2	3.3	3.3	-53.16	33.0	-44.1	55.3	48.8	6.54	8.455		
1,600.0	1,600.0	1,596.3	1,594.2	3.5	3.6	22.06	42.4	-47.9	62.6	55.7	6.96	8.998		
1,700.0	1,699.8	1,696.0	1,693.4	3.7	3.8	27.46	51.8	-51.7	67.2	59.9	7.39	9.100		
1,800.0	1,799.5	1,795.7	1,792.6	3.9	4.1	33.67	61.2	-55.5	69.5	61.6	7.82	8.881		
1,900.0	1,898.8	1,895.3	1,891.7	4.1	4.3	40.63	70.5	-59.4	70.7	62.4	8.28	8.537		
2,000.0	1,998.2	1,995.0	1,990.8	4.4	4.6	47.31	79.9	-63.2	72.8	64.1	8.75	8.323		
2,100.0	2,097.6	2,094.6	2,089.9	4.6	4.9	53.53	89.3	-67.0	75.9	66.7	9.24	8.216		
2,200.0	2,197.0	2,194.2	2,189.0	4.9	5.2	59.20	98.7	-70.8	79.8	70.1	9.75	8.192		
2,300.0	2,296.4	2,293.8	2,288.2	5.2	5.4	64.30	108.0	-74.6	84.5	74.2	10.27	8.227		
2,400.0	2,395.7	2,393.5	2,387.3	5.4	5.7	68.84	117.4	-78.4	89.7	78.9	10.80	8.306		
2,500.0	2,495.1	2,493.1	2,486.4	5.7	6.0	72.86	126.8	-82.3	95.4	84.1	11.34	8.414		
2,600.0	2,594.5	2,592.7	2,585.5	6.0	6.3	76.42	136.2	-86.1	101.6	89.7	11.89	8.543		
2,700.0	2,693.9	2,692.3	2,684.6	6.3	6.6	79.55	145.5	-89.9	108.1	95.6	12.45	8.684		
2,800.0	2,793.3	2,792.0	2,783.7	6.5	6.8	82.33	154.9	-93.7	114.9	101.9	13.00	8.833		
2,900.0	2,892.7	2,891.6	2,882.8	6.8	7.1	84.79	164.3	-97.5	121.9	108.3	13.56	8.985		
3,000.0	2,992.0	2,991.2	2,981.9	7.1	7.4	86.98	173.6	-101.3	129.1	115.0	14.13	9.137		
3,100.0	3,091.4	3,090.8	3,081.0	7.4	7.7	88.94	183.0	-105.1	136.5	121.8	14.69	9.289		
3,200.0	3,190.8	3,190.5	3,180.1	7.7	8.0	90.69	192.4	-109.0	144.0	128.7	15.26	9.437		
3,300.0	3,290.2	3,290.1	3,279.2	8.0	8.2	92.28	201.8	-112.8	151.7	135.8	15.82	9.584		
3,400.0	3,389.8	3,389.8	3,378.4	8.2	8.5	93.13	211.1	-116.6	159.3	143.0	16.31	9.765		
3,500.0	3,489.6	3,489.5	3,477.6	8.4	8.8	92.71	220.5	-120.4	166.7	150.0	16.77	9.945		
3,600.0	3,589.6	3,589.1	3,576.7	8.6	9.1	91.19	229.9	-124.2	174.1	156.9	17.18	10.133		
3,700.0	3,689.6	3,688.6	3,675.6	8.7	9.4	19.00	239.3	-128.0	181.7	164.8	16.89	10.756		
3,800.0	3,789.6	3,788.0	3,774.6	8.9	9.7	16.98	248.6	-131.8	189.4	172.0	17.41	10.884		
3,900.0	3,889.6	3,887.5	3,873.6	9.1	10.0	15.12	258.0	-135.7	197.4	179.5	17.93	11.015		
4,000.0	3,989.6	3,987.0	3,972.6	9.3	10.2	13.41	267.3	-139.5	205.6	187.2	18.45	11.148		
4,100.0	4,089.6	4,086.5	4,071.5	9.5	10.5	11.83	276.7	-143.3	214.0	195.0	18.97	11.283		
4,200.0	4,189.6	4,186.0	4,170.5	9.7	10.8	10.37	286.1	-147.1	222.5	203.0	19.49	11.417		
4,300.0	4,289.6	4,285.4	4,269.5	10.0	11.1	9.02	295.4	-150.9	231.1	211.1	20.01	11.551		
4,400.0	4,389.6	4,384.9	4,368.4	10.2	11.4	7.77	304.8	-154.7	239.9	219.4	20.53	11.684		
4,500.0	4,489.6	4,484.4	4,467.4	10.4	11.7	6.60	314.1	-158.5	248.8	227.7	21.05	11.816		
4,600.0	4,589.6	4,583.9	4,566.4	10.6	12.0	5.52	323.5	-162.3	257.7	236.2	21.58	11.946		
4,700.0	4,689.6	4,683.4	4,665.3	10.8	12.3	4.50	332.9	-166.1	266.8	244.7	22.10	12.073		
4,800.0	4,789.6	4,782.9	4,764.3	11.0	12.5	3.56	342.2	-169.9	275.9	253.3	22.62	12.199		
4,900.0	4,889.6	4,882.3	4,863.3	11.2	12.8	2.67	351.6	-173.8	285.1	262.0	23.14	12.322		
5,000.0	4,989.6	4,981.8	4,962.2	11.4	13.1	1.85	360.9	-177.6	294.4	270.7	23.66	12.442		

COMPASS 2003.21 Build 46



<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Project:</b>	SEC.24-T5N-R65W	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Reference Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #3 (1-22-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24P-332 - Wellbore #1 - Plan #3 (1-22-14)													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	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	5,089.6	5,081.3	5,061.2	11.6	13.4	1.07	1.07	370.3	-181.4	303.7	279.5	24.18	12.560	
5,200.0	5,189.6	5,180.8	5,160.2	11.8	13.7	0.33	0.33	379.7	-185.2	313.1	288.4	24.70	12.675	
5,300.0	5,289.6	5,286.2	5,265.0	12.1	14.0	-0.36	-0.36	389.1	-189.0	322.0	296.8	25.21	12.771	
5,400.0	5,389.6	5,397.7	5,376.4	12.3	14.2	-0.81	-0.81	395.5	-191.6	327.8	302.2	25.67	12.771	
5,500.0	5,489.6	5,509.7	5,488.3	12.5	14.4	-0.98	-0.98	398.0	-192.6	330.0	304.0	26.08	12.654	
5,600.0	5,589.6	5,611.0	5,589.6	12.7	14.5	-0.98	-0.98	398.0	-192.6	330.1	303.6	26.47	12.467	
5,700.0	5,689.6	5,711.0	5,689.6	12.9	14.7	-0.98	-0.98	398.0	-192.6	330.1	303.2	26.88	12.278	
5,800.0	5,789.6	5,811.0	5,789.6	13.1	14.9	-0.98	-0.98	398.0	-192.6	330.1	302.8	27.29	12.093	
5,858.7	5,848.3	5,869.7	5,848.3	13.2	15.0	-91.39	-91.39	398.0	-192.6	330.1	303.4	26.69	12.365	
5,900.0	5,889.6	5,911.0	5,889.6	13.3	15.1	-91.35	-91.35	398.0	-192.6	330.1	303.2	26.87	12.283	
6,000.0	5,989.1	6,010.5	5,989.1	13.5	15.3	-92.89	-92.89	398.0	-192.6	330.4	303.2	27.19	12.151	
6,100.0	6,086.6	6,108.9	6,087.5	13.6	15.5	-96.46	-96.46	398.0	-192.4	332.2	304.8	27.40	12.123	
6,200.0	6,180.3	6,212.5	6,190.6	13.7	15.6	-100.71	-100.71	398.0	-183.0	336.2	308.7	27.53	12.214	
6,300.0	6,268.8	6,320.1	6,295.3	13.9	15.7	-104.76	-104.76	397.8	-158.5	342.0	314.3	27.63	12.377	
6,400.0	6,350.4	6,432.2	6,399.5	14.1	15.8	-108.52	-108.52	397.6	-117.6	349.0	321.2	27.76	12.573	
6,500.0	6,423.8	6,548.7	6,500.4	14.6	15.9	-111.91	-111.91	397.3	-59.4	356.8	328.8	28.01	12.739	
6,600.0	6,487.8	6,669.9	6,594.6	15.3	16.0	-114.84	-114.84	396.9	16.6	364.8	336.2	28.54	12.779	
6,700.0	6,541.2	6,795.4	6,678.3	16.3	16.3	-117.27	-117.27	396.3	110.0	372.2	342.7	29.53	12.606	
6,800.0	6,583.0	6,924.9	6,747.3	17.6	17.4	-119.14	-119.14	395.7	219.3	378.5	347.3	31.17	12.142	
6,900.0	6,612.7	7,057.4	6,797.9	19.3	19.3	-120.41	-120.41	395.1	341.6	383.0	349.4	33.57	11.408	
7,000.0	6,629.7	7,192.0	6,826.9	21.2	21.6	-121.06	-121.06	394.4	472.9	385.4	348.6	36.76	10.484	
7,100.0	6,633.8	7,320.2	6,833.0	23.2	24.2	-121.10	-121.10	393.7	600.7	385.6	345.1	40.53	9.514	
7,200.0	6,633.2	7,420.2	6,831.8	25.4	26.3	-121.03	-121.03	393.1	700.7	385.3	341.0	44.30	8.698	
7,300.0	6,632.5	7,520.1	6,830.6	27.7	28.6	-120.95	-120.95	392.6	800.7	385.1	336.8	48.28	7.976	
7,400.0	6,631.9	7,620.1	6,829.3	30.1	30.9	-120.88	-120.88	392.0	900.7	384.8	332.4	52.42	7.341	
7,500.0	6,631.2	7,720.1	6,828.1	32.5	33.4	-120.81	-120.81	391.5	1,000.7	384.5	327.8	56.69	6.783	
7,600.0	6,630.6	7,820.1	6,826.9	35.0	35.8	-120.73	-120.73	390.9	1,100.7	384.3	323.2	61.06	6.293	
7,700.0	6,629.9	7,920.1	6,825.7	37.6	38.4	-120.66	-120.66	390.4	1,200.7	384.0	318.5	65.51	5.861	
7,800.0	6,629.3	8,020.1	6,824.5	40.2	40.9	-120.59	-120.59	389.8	1,300.7	383.7	313.7	70.04	5.479	
7,900.0	6,628.6	8,120.1	6,823.3	42.8	43.5	-120.51	-120.51	389.3	1,400.7	383.5	308.9	74.62	5.139	
8,000.0	6,628.0	8,220.1	6,822.1	45.4	46.1	-120.44	-120.44	388.7	1,500.6	383.2	304.0	79.25	4.835	
8,100.0	6,627.3	8,320.1	6,820.9	48.1	48.8	-120.36	-120.36	388.2	1,600.6	383.0	299.0	83.92	4.563	
8,200.0	6,626.7	8,420.1	6,819.7	50.8	51.4	-120.29	-120.29	387.6	1,700.6	382.7	294.1	88.64	4.318	
8,300.0	6,626.1	8,520.1	6,818.5	53.4	54.1	-120.22	-120.22	387.1	1,800.6	382.4	289.1	93.38	4.096	
8,400.0	6,625.4	8,620.1	6,817.3	56.1	56.8	-120.14	-120.14	386.5	1,900.6	382.2	284.0	98.15	3.894	
8,500.0	6,624.8	8,720.1	6,816.1	58.9	59.5	-120.07	-120.07	386.0	2,000.6	381.9	279.0	102.95	3.710	
8,600.0	6,624.1	8,820.1	6,814.9	61.6	62.2	-119.99	-119.99	385.4	2,100.6	381.7	273.9	107.76	3.542	
8,700.0	6,623.5	8,920.1	6,813.7	64.3	64.9	-119.92	-119.92	384.9	2,200.6	381.4	268.8	112.61	3.387	
8,800.0	6,622.8	9,020.1	6,812.5	67.0	67.6	-119.84	-119.84	384.4	2,300.6	381.1	263.7	117.46	3.245	
8,900.0	6,622.2	9,120.1	6,811.3	69.8	70.4	-119.77	-119.77	383.8	2,400.6	380.9	258.6	122.34	3.113	
9,000.0	6,621.5	9,220.1	6,810.1	72.5	73.1	-119.69	-119.69	383.3	2,500.5	380.6	253.4	127.24	2.992	
9,100.0	6,620.9	9,320.1	6,808.9	75.3	75.8	-119.62	-119.62	382.7	2,600.5	380.4	248.2	132.15	2.879	
9,200.0	6,620.2	9,420.1	6,807.7	78.0	78.6	-119.54	-119.54	382.2	2,700.5	380.1	243.1	137.07	2.773	
9,300.0	6,619.6	9,520.1	6,806.5	80.8	81.3	-119.47	-119.47	381.6	2,800.5	379.9	237.9	142.01	2.675	
9,400.0	6,619.0	9,620.1	6,805.3	83.5	84.1	-119.39	-119.39	381.1	2,900.5	379.6	232.7	146.96	2.583	
9,500.0	6,618.3	9,720.1	6,804.1	86.3	86.8	-119.32	-119.32	380.5	3,000.5	379.4	227.5	151.92	2.497	
9,600.0	6,617.7	9,820.1	6,802.9	89.1	89.6	-119.24	-119.24	380.0	3,100.5	379.1	222.2	156.89	2.416	
9,700.0	6,617.0	9,920.1	6,801.7	91.8	92.4	-119.17	-119.17	379.4	3,200.5	378.9	217.0	161.88	2.340	
9,800.0	6,616.4	10,020.1	6,800.4	94.6	95.1	-119.09	-119.09	378.9	3,300.5	378.6	211.7	166.88	2.269	
9,900.0	6,615.7	10,120.1	6,799.2	97.4	97.9	-119.02	-119.02	378.3	3,400.5	378.4	206.5	171.88	2.201	
10,000.0	6,615.1	10,220.1	6,798.0	100.2	100.7	-118.94	-118.94	377.8	3,500.4	378.1	201.2	176.90	2.138	

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

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Project:</b>	SEC.24-T5N-R65W	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Reference Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #3 (1-22-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24P-332 - Wellbore #1 - Plan #3 (1-22-14)												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
10,100.0	6,614.4	10,320.1	6,796.8	102.9	103.4	-118.86	377.2	3,600.4	377.9	196.0	181.93	2.077	
10,200.0	6,613.8	10,420.1	6,795.6	105.7	106.2	-118.79	376.7	3,700.4	377.6	190.7	186.97	2.020	
10,300.0	6,613.1	10,520.1	6,794.4	108.5	109.0	-118.71	376.1	3,800.4	377.4	185.4	192.01	1.965	
10,400.0	6,612.5	10,620.1	6,793.2	111.3	111.8	-118.63	375.6	3,900.4	377.1	180.1	197.07	1.914	
10,500.0	6,611.8	10,720.1	6,792.0	114.1	114.5	-118.56	375.0	4,000.4	376.9	174.8	202.13	1.865	
10,600.0	6,611.2	10,820.1	6,790.8	116.8	117.3	-118.48	374.5	4,100.4	376.7	169.4	207.20	1.818	
10,700.0	6,610.6	10,920.1	6,789.6	119.6	120.1	-118.41	373.9	4,200.4	376.4	164.1	212.29	1.773	
10,800.0	6,609.9	11,020.1	6,788.4	122.4	122.9	-118.33	373.4	4,300.4	376.2	158.8	217.37	1.730	
10,900.0	6,609.3	11,120.1	6,787.2	125.2	125.7	-118.25	372.9	4,400.3	375.9	153.5	222.47	1.690	
11,000.0	6,608.6	11,220.1	6,786.0	128.0	128.5	-118.17	372.3	4,500.3	375.7	148.1	227.58	1.651	
11,100.0	6,608.0	11,320.1	6,784.8	130.8	131.2	-118.10	371.8	4,600.3	375.4	142.7	232.69	1.613	
11,200.0	6,607.3	11,420.1	6,783.6	133.6	134.0	-118.02	371.2	4,700.3	375.2	137.4	237.82	1.578	
11,300.0	6,606.7	11,520.1	6,782.4	136.4	136.8	-117.94	370.7	4,800.3	375.0	132.0	242.95	1.543	
11,400.0	6,606.0	11,620.1	6,781.2	139.2	139.6	-117.87	370.1	4,900.3	374.7	126.6	248.08	1.510	
11,500.0	6,605.4	11,720.1	6,780.0	142.0	142.4	-117.79	369.6	5,000.3	374.5	121.3	253.23	1.479 Level 3	
11,600.0	6,604.7	11,820.1	6,778.8	144.8	145.2	-117.71	369.0	5,100.3	374.2	115.9	258.38	1.448 Level 3	
11,700.0	6,604.1	11,920.1	6,777.6	147.5	148.0	-117.63	368.5	5,200.3	374.0	110.5	263.54	1.419 Level 3	
11,800.0	6,603.5	12,020.1	6,776.4	150.3	150.8	-117.56	367.9	5,300.3	373.8	105.1	268.71	1.391 Level 3	
11,900.0	6,602.8	12,120.1	6,775.2	153.1	153.6	-117.48	367.4	5,400.2	373.5	99.7	273.88	1.364 Level 3	
12,000.0	6,602.2	12,220.1	6,774.0	155.9	156.4	-117.40	366.8	5,500.2	373.3	94.2	279.07	1.338 Level 3	
12,100.0	6,601.5	12,320.1	6,772.7	158.7	159.2	-117.32	366.3	5,600.2	373.1	88.8	284.26	1.312 Level 3	
12,200.0	6,600.9	12,420.1	6,771.5	161.5	162.0	-117.24	365.7	5,700.2	372.8	83.4	289.45	1.288 Level 3	
12,300.0	6,600.2	12,520.1	6,770.3	164.3	164.6	-117.17	365.2	5,800.2	372.6	78.1	294.48	1.265 Level 3	
12,328.3	6,600.0	12,548.3	6,770.0	165.1	165.1	-117.14	365.0	5,828.5	372.5	76.8	295.70	1.260 Level 3	
12,335.0	6,600.0	12,548.3	6,770.0	165.3	165.1	-117.14	365.0	5,828.5	372.6	76.7	295.87	1.259 Level 3, SF	

Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24Q-302 - Wellbore #1 - Plan #3 (1-22-14)													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)			
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	30.6	30.6					
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	30.6	30.6	30.4	0.22	136.352		
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	30.6	30.6	30.0	0.67	45.451		
300.0	300.0	300.0	300.0	0.6	0.6	90.02	0.0	30.6	30.6	29.5	1.12	27.270		
400.0	400.0	400.0	400.0	0.8	0.8	90.02	0.0	30.6	30.6	29.1	1.57	19.479		
500.0	500.0	500.0	500.0	1.0	1.0	90.02	0.0	30.6	30.6	28.6	2.02	15.150		
600.0	600.0	600.0	600.0	1.2	1.2	90.02	0.0	30.6	30.6	28.2	2.47	12.396		
700.0	700.0	700.0	700.0	1.5	1.5	90.02	0.0	30.6	30.6	27.7	2.92	10.489		
800.0	800.0	800.0	800.0	1.7	1.7	90.02	0.0	30.6	30.6	27.3	3.37	9.090		
900.0	900.0	900.0	900.0	1.9	1.9	90.02	0.0	30.6	30.6	26.8	3.82	8.021		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.02	0.0	30.6	30.6	26.4	4.27	7.176		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.02	0.0	30.6	30.6	25.9	4.72	6.493		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.02	0.0	30.6	30.6	25.5	5.17	5.928		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.02	0.0	30.6	30.6	25.0	5.62	5.454		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.02	0.0	30.6	30.6	24.6	6.07	5.050		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	90.02	0.0	30.6	30.6	24.1	6.52	4.702 CC, ES		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	161.09	0.0	30.6	32.3	25.3	6.96	4.643		
1,700.0	1,699.8	1,699.8	1,699.8	3.7	3.7	163.67	0.0	30.6	37.3	29.9	7.38	5.052		
1,800.0	1,799.5	1,800.3	1,800.3	3.9	3.9	168.62	-1.4	29.5	44.8	37.0	7.77	5.764		
1,900.0	1,898.8	1,900.5	1,900.3	4.1	4.1	175.84	-5.4	26.2	53.3	45.2	8.15	6.542		
2,000.0	1,998.2	2,000.5	2,000.0	4.4	4.3	-175.92	-12.1	20.6	61.5	53.0	8.56	7.190		
2,100.0	2,097.6	2,099.8	2,098.6	4.6	4.5	-167.72	-20.7	13.5	70.3	61.3	8.99	7.823		
2,200.0	2,197.0	2,199.0	2,197.2	4.9	4.7	-161.35	-29.4	6.3	80.2	70.7	9.44	8.495		
2,300.0	2,296.4	2,298.1	2,295.7	5.2	4.9	-156.41	-38.1	-0.9	90.8	80.9	9.91	9.168		
2,400.0	2,395.7	2,397.3	2,394.2	5.4	5.2	-152.53	-46.8	-8.1	102.0	91.6	10.39	9.819		
2,500.0	2,495.1	2,496.5	2,492.7	5.7	5.4	-149.42	-55.5	-15.3	113.5	102.7	10.88	10.436		
2,600.0	2,594.5	2,595.6	2,591.2	6.0	5.6	-146.90	-64.2	-22.5	125.3	114.0	11.38	11.015		
2,700.0	2,693.9	2,694.8	2,689.8	6.3	5.9	-144.80	-72.8	-29.7	137.4	125.5	11.89	11.554		
2,800.0	2,793.3	2,794.0	2,788.3	6.5	6.2	-143.05	-81.5	-36.9	149.5	137.1	12.40	12.056		
2,900.0	2,892.7	2,893.1	2,886.8	6.8	6.4	-141.56	-90.2	-44.0	161.8	148.9	12.92	12.521		
3,000.0	2,992.0	2,992.3	2,985.3	7.1	6.7	-140.28	-98.9	-51.2	174.2	160.7	13.45	12.953		
3,100.0	3,091.4	3,091.4	3,083.8	7.4	7.0	-139.17	-107.6	-58.4	186.6	172.6	13.98	13.353		
3,200.0	3,190.8	3,190.6	3,182.4	7.7	7.2	-138.20	-116.2	-65.6	199.1	184.6	14.51	13.725		
3,300.0	3,290.2	3,289.8	3,280.9	8.0	7.5	-137.36	-124.9	-72.8	211.7	196.6	15.04	14.072		
3,400.0	3,389.8	3,389.1	3,379.5	8.2	7.8	-136.39	-133.6	-80.0	222.8	207.3	15.53	14.344		
3,500.0	3,489.6	3,488.5	3,478.3	8.4	8.1	-134.90	-142.3	-87.2	231.6	215.5	16.01	14.463		
3,600.0	3,589.6	3,587.9	3,577.0	8.6	8.4	-132.88	-151.0	-94.4	238.1	221.6	16.47	14.458		
3,700.0	3,689.6	3,687.2	3,675.7	8.7	8.7	159.45	-159.7	-101.6	243.6	227.3	16.29	14.955		
3,800.0	3,789.6	3,786.6	3,774.4	8.9	9.0	161.70	-168.4	-108.8	249.5	232.7	16.74	14.900		
3,900.0	3,889.6	3,885.9	3,873.2	9.1	9.3	163.85	-177.1	-116.0	255.7	238.5	17.21	14.861		
4,000.0	3,989.6	3,985.3	3,971.9	9.3	9.5	165.90	-185.8	-123.2	262.3	244.6	17.68	14.836		
4,100.0	4,089.6	4,084.6	4,070.6	9.5	9.8	167.84	-194.5	-130.4	269.2	251.0	18.16	14.824		
4,200.0	4,189.6	4,184.0	4,169.3	9.7	10.1	169.69	-203.2	-137.6	276.4	257.8	18.65	14.822		
4,300.0	4,289.6	4,283.3	4,268.0	10.0	10.4	171.44	-211.9	-144.9	283.9	264.7	19.14	14.830		
4,400.0	4,389.6	4,382.7	4,366.7	10.2	10.7	173.10	-220.6	-152.1	291.6	272.0	19.64	14.845		
4,500.0	4,489.6	4,482.0	4,465.4	10.4	11.0	174.67	-229.3	-159.3	299.6	279.4	20.15	14.867		
4,600.0	4,589.6	4,581.4	4,564.1	10.6	11.3	176.16	-238.0	-166.5	307.7	287.1	20.66	14.896		
4,700.0	4,689.6	4,680.7	4,662.8	10.8	11.6	177.57	-246.7	-173.7	316.1	294.9	21.17	14.929		
4,800.0	4,789.6	4,788.3	4,769.9	11.0	11.9	178.84	-254.9	-180.4	323.5	301.9	21.66	14.937		
4,900.0	4,889.6	4,897.6	4,879.0	11.2	12.1	179.60	-260.0	-184.7	328.2	306.1	22.12	14.839		
5,000.0	4,989.6	5,007.3	4,988.6	11.4	12.3	179.89	-262.0	-186.3	330.0	307.4	22.55	14.635		

Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24Q-302 - Wellbore #1 - Plan #3 (1-22-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.0	5,089.6	5,108.3	5,089.6	11.6	12.5	179.89	-262.0	-186.4	330.0	307.1	22.95	14.377		
5,200.0	5,189.6	5,208.3	5,189.6	11.8	12.7	179.89	-262.0	-186.4	330.0	306.7	23.36	14.130		
5,300.0	5,289.6	5,308.3	5,289.6	12.1	12.8	179.89	-262.0	-186.4	330.0	306.3	23.76	13.890		
5,400.0	5,389.6	5,408.3	5,389.6	12.3	13.0	179.89	-262.0	-186.4	330.0	305.8	24.16	13.658		
5,500.0	5,489.6	5,508.3	5,489.6	12.5	13.2	179.89	-262.0	-186.4	330.0	305.4	24.57	13.432		
5,600.0	5,589.6	5,608.3	5,589.6	12.7	13.4	179.89	-262.0	-186.4	330.0	305.0	24.98	13.213		
5,700.0	5,689.6	5,708.3	5,689.6	12.9	13.6	179.89	-262.0	-186.4	330.0	304.6	25.39	13.000		
5,800.0	5,789.6	5,808.3	5,789.6	13.1	13.7	179.89	-262.0	-186.4	330.0	304.2	25.80	12.793		
5,900.0	5,889.6	5,908.3	5,889.6	13.3	13.9	89.60	-262.0	-186.4	330.0	303.6	26.43	12.486		
5,942.7	5,932.2	5,950.9	5,932.2	13.4	14.0	90.00	-262.0	-186.4	330.0	303.4	26.57	12.418		
6,000.0	5,989.1	6,007.8	5,989.1	13.5	14.1	91.17	-262.0	-186.4	330.1	303.3	26.75	12.337		
6,100.0	6,086.6	6,105.9	6,087.2	13.6	14.3	94.78	-262.0	-186.1	331.2	304.2	27.00	12.270		
6,200.0	6,180.3	6,208.1	6,188.9	13.7	14.4	99.08	-262.1	-176.9	334.5	307.3	27.15	12.321		
6,300.0	6,268.8	6,314.2	6,292.2	13.9	14.5	103.22	-262.2	-153.1	339.6	312.3	27.25	12.463		
6,400.0	6,350.4	6,424.5	6,395.0	14.1	14.6	107.11	-262.4	-113.4	346.1	318.8	27.35	12.656		
6,500.0	6,423.8	6,539.4	6,494.9	14.6	14.7	110.65	-262.7	-56.9	353.7	326.1	27.57	12.831		
6,600.0	6,487.8	6,658.8	6,588.4	15.3	14.7	113.76	-263.1	17.1	361.6	333.6	28.06	12.888		
6,700.0	6,541.2	6,782.7	6,672.1	16.3	15.0	116.40	-263.6	108.3	369.3	340.2	29.04	12.717		
6,800.0	6,583.0	6,910.7	6,742.0	17.6	16.2	118.49	-264.2	215.5	376.0	345.3	30.68	12.256		
6,900.0	6,612.7	7,042.2	6,794.0	19.3	18.0	120.00	-264.8	336.0	381.2	348.1	33.12	11.510		
7,000.0	6,629.7	7,176.1	6,825.1	21.2	20.3	120.89	-265.5	466.1	384.4	348.0	36.35	10.573		
7,100.0	6,633.8	7,307.6	6,833.1	23.2	22.9	121.15	-266.2	597.2	385.3	345.1	40.21	9.582		
7,200.0	6,633.2	7,407.6	6,831.9	25.4	25.1	121.08	-266.8	697.2	384.9	341.0	43.98	8.753		
7,300.0	6,632.5	7,507.6	6,830.7	27.7	27.4	121.01	-267.3	797.1	384.6	336.7	47.95	8.021		
7,400.0	6,631.9	7,607.6	6,829.5	30.1	29.8	120.94	-267.8	897.1	384.3	332.2	52.10	7.377		
7,500.0	6,631.2	7,707.6	6,828.3	32.5	32.2	120.87	-268.4	997.1	384.0	327.6	56.37	6.812		
7,600.0	6,630.6	7,807.6	6,827.1	35.0	34.7	120.80	-268.9	1,097.1	383.7	322.9	60.74	6.317		
7,700.0	6,629.9	7,907.6	6,825.8	37.6	37.3	120.74	-269.5	1,197.1	383.4	318.2	65.20	5.880		
7,800.0	6,629.3	8,007.6	6,824.6	40.2	39.8	120.67	-270.0	1,297.1	383.0	313.3	69.73	5.494		
7,900.0	6,628.6	8,107.6	6,823.4	42.8	42.4	120.60	-270.5	1,397.1	382.7	308.4	74.31	5.150		
8,000.0	6,628.0	8,207.6	6,822.2	45.4	45.1	120.53	-271.1	1,497.1	382.4	303.5	78.95	4.844		
8,100.0	6,627.3	8,307.6	6,821.0	48.1	47.7	120.46	-271.6	1,597.1	382.1	298.5	83.62	4.569		
8,200.0	6,626.7	8,407.6	6,819.8	50.8	50.4	120.39	-272.1	1,697.0	381.8	293.5	88.33	4.322		
8,300.0	6,626.1	8,507.6	6,818.6	53.4	53.1	120.32	-272.7	1,797.0	381.5	288.4	93.08	4.098		
8,400.0	6,625.4	8,607.6	6,817.4	56.1	55.8	120.25	-273.2	1,897.0	381.2	283.3	97.85	3.895		
8,500.0	6,624.8	8,707.6	6,816.2	58.9	58.5	120.18	-273.8	1,997.0	380.9	278.2	102.65	3.710		
8,600.0	6,624.1	8,807.6	6,815.0	61.6	61.2	120.11	-274.3	2,097.0	380.5	273.1	107.47	3.541		
8,700.0	6,623.5	8,907.6	6,813.8	64.3	63.9	120.04	-274.8	2,197.0	380.2	267.9	112.31	3.386		
8,800.0	6,622.8	9,007.6	6,812.6	67.0	66.7	119.97	-275.4	2,297.0	379.9	262.8	117.17	3.242		
8,900.0	6,622.2	9,107.6	6,811.4	69.8	69.4	119.90	-275.9	2,397.0	379.6	257.6	122.05	3.110		
9,000.0	6,621.5	9,207.6	6,810.2	72.5	72.1	119.83	-276.4	2,497.0	379.3	252.4	126.94	2.988		
9,100.0	6,620.9	9,307.6	6,809.0	75.3	74.9	119.76	-277.0	2,597.0	379.0	247.1	131.85	2.874		
9,200.0	6,620.2	9,407.6	6,807.8	78.0	77.6	119.69	-277.5	2,696.9	378.7	241.9	136.77	2.769		
9,300.0	6,619.6	9,507.5	6,806.6	80.8	80.4	119.62	-278.1	2,796.9	378.4	236.7	141.71	2.670		
9,400.0	6,619.0	9,607.5	6,805.4	83.5	83.1	119.55	-278.6	2,896.9	378.1	231.4	146.65	2.578		
9,500.0	6,618.3	9,707.5	6,804.2	86.3	85.9	119.47	-279.1	2,996.9	377.8	226.2	151.61	2.492		
9,600.0	6,617.7	9,807.5	6,803.0	89.1	88.7	119.40	-279.7	3,096.9	377.5	220.9	156.58	2.411		
9,700.0	6,617.0	9,907.5	6,801.8	91.8	91.4	119.33	-280.2	3,196.9	377.2	215.6	161.57	2.334		
9,800.0	6,616.4	10,007.5	6,800.6	94.6	94.2	119.26	-280.7	3,296.9	376.9	210.3	166.56	2.263		
9,900.0	6,615.7	10,107.5	6,799.4	97.4	97.0	119.19	-281.3	3,396.9	376.5	205.0	171.56	2.195		
10,000.0	6,615.1	10,207.5	6,798.1	100.2	99.8	119.12	-281.8	3,496.9	376.2	199.7	176.58	2.131		

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Project:</b>	SEC.24-T5N-R65W	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Reference Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #3 (1-22-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24Q-302 - Wellbore #1 - Plan #3 (1-22-14)													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	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,100.0	6,614.4	10,307.5	6,796.9	102.9	102.5	119.05	-282.4	3,596.9	375.9	194.3	181.60	2.070		
10,200.0	6,613.8	10,407.5	6,795.7	105.7	105.3	118.97	-282.9	3,696.8	375.6	189.0	186.63	2.013		
10,300.0	6,613.1	10,507.5	6,794.5	108.5	108.1	118.90	-283.4	3,796.8	375.3	183.7	191.67	1.958		
10,400.0	6,612.5	10,607.5	6,793.3	111.3	110.9	118.83	-284.0	3,896.8	375.0	178.3	196.72	1.906		
10,500.0	6,611.8	10,707.5	6,792.1	114.1	113.7	118.76	-284.5	3,996.8	374.7	173.0	201.78	1.857		
10,600.0	6,611.2	10,807.5	6,790.9	116.8	116.4	118.69	-285.0	4,096.8	374.4	167.6	206.84	1.810		
10,700.0	6,610.6	10,907.5	6,789.7	119.6	119.2	118.61	-285.6	4,196.8	374.1	162.2	211.92	1.765		
10,800.0	6,609.9	11,007.5	6,788.5	122.4	122.0	118.54	-286.1	4,296.8	373.8	156.8	217.00	1.723		
10,900.0	6,609.3	11,107.5	6,787.3	125.2	124.8	118.47	-286.7	4,396.8	373.5	151.5	222.09	1.682		
11,000.0	6,608.6	11,207.5	6,786.1	128.0	127.6	118.40	-287.2	4,496.8	373.2	146.1	227.19	1.643		
11,100.0	6,608.0	11,307.5	6,784.9	130.8	130.4	118.32	-287.7	4,596.8	373.0	140.7	232.30	1.606		
11,200.0	6,607.3	11,407.5	6,783.7	133.6	133.2	118.25	-288.3	4,696.7	372.7	135.2	237.41	1.570		
11,300.0	6,606.7	11,507.5	6,782.5	136.4	136.0	118.18	-288.8	4,796.7	372.4	129.8	242.53	1.535		
11,400.0	6,606.0	11,607.5	6,781.3	139.2	138.8	118.10	-289.3	4,896.7	372.1	124.4	247.66	1.502		
11,500.0	6,605.4	11,707.5	6,780.1	142.0	141.5	118.03	-289.9	4,996.7	371.8	119.0	252.80	1.471 Level 3		
11,600.0	6,604.7	11,807.5	6,778.9	144.8	144.3	117.96	-290.4	5,096.7	371.5	113.5	257.94	1.440 Level 3		
11,700.0	6,604.1	11,907.5	6,777.7	147.5	147.1	117.88	-291.0	5,196.7	371.2	108.1	263.09	1.411 Level 3		
11,800.0	6,603.5	12,007.5	6,776.5	150.3	149.9	117.81	-291.5	5,296.7	370.9	102.6	268.25	1.383 Level 3		
11,900.0	6,602.8	12,107.5	6,775.3	153.1	152.7	117.74	-292.0	5,396.7	370.6	97.2	273.41	1.355 Level 3		
12,000.0	6,602.2	12,207.5	6,774.1	155.9	155.5	117.66	-292.6	5,496.7	370.3	91.7	278.58	1.329 Level 3		
12,100.0	6,601.5	12,307.5	6,772.9	158.7	158.3	117.59	-293.1	5,596.6	370.0	86.3	283.76	1.304 Level 3		
12,200.0	6,600.9	12,407.5	6,771.7	161.5	161.1	117.51	-293.6	5,696.6	369.7	80.8	288.95	1.280 Level 3		
12,300.0	6,600.2	12,507.5	6,770.5	164.3	163.9	117.44	-294.2	5,796.6	369.4	75.3	294.14	1.256 Level 3		
12,335.0	6,600.0	12,542.5	6,770.0	165.3	164.9	117.41	-294.4	5,831.6	369.3	73.4	295.96	1.248 Level 2, SF		

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Project:</b>	SEC.24-T5N-R65W	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Reference Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #3 (1-22-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 44-24 (Exist.) - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 7300-MWD												<b>Offset Well Error:</b>	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
7,300.0	6,632.5	6,614.5	6,614.5	27.7	7.4	-96.52	113.0	1,794.2	999.0	964.1	34.93	28.597	
7,400.0	6,631.9	6,613.9	6,613.9	30.1	7.4	-95.87	113.0	1,794.2	899.2	861.8	37.34	24.080	
7,500.0	6,631.2	6,613.2	6,613.2	32.5	7.4	-95.22	113.0	1,794.2	799.4	759.6	39.82	20.077	
7,600.0	6,630.6	6,612.6	6,612.6	35.0	7.4	-94.57	113.0	1,794.2	699.7	657.3	42.35	16.522	
7,700.0	6,629.9	6,611.9	6,611.9	37.6	7.4	-93.91	113.0	1,794.2	600.1	555.2	44.92	13.358	
7,800.0	6,629.3	6,611.3	6,611.3	40.2	7.4	-93.26	113.0	1,794.2	500.6	453.1	47.53	10.532	
7,900.0	6,628.6	6,610.6	6,610.6	42.8	7.4	-92.61	113.0	1,794.2	401.4	351.2	50.17	8.002	
8,000.0	6,628.0	6,610.0	6,610.0	45.4	7.4	-91.95	113.0	1,794.2	302.7	249.9	52.82	5.731	
8,100.0	6,627.3	6,609.3	6,609.3	48.1	7.4	-91.30	113.0	1,794.2	205.3	149.8	55.49	3.700	
8,200.0	6,626.7	6,608.7	6,608.7	50.8	7.4	-90.64	113.0	1,794.2	112.6	54.4	58.18	1.935	
8,297.4	6,626.1	6,608.1	6,608.1	53.4	7.4	-90.00	113.0	1,794.2	56.4	-4.4	60.80	0.927	Level 1, CC
8,300.0	6,626.1	6,608.1	6,608.1	53.4	7.4	-89.98	113.0	1,794.2	56.4	-4.4	60.87	0.927	Level 1, ES, SF
8,400.0	6,625.4	6,607.4	6,607.4	56.1	7.4	-89.33	113.0	1,794.2	117.0	53.5	63.57	1.841	
8,500.0	6,624.8	6,606.8	6,606.8	58.9	7.4	-88.67	113.0	1,794.2	210.3	144.0	66.27	3.173	
8,600.0	6,624.1	6,606.1	6,606.1	61.6	7.4	-88.02	113.0	1,794.2	307.8	238.8	68.97	4.462	
8,700.0	6,623.5	6,605.5	6,605.5	64.3	7.4	-87.36	113.0	1,794.2	406.5	334.8	71.67	5.672	
8,800.0	6,622.8	6,604.8	6,604.8	67.0	7.4	-86.71	113.0	1,794.2	505.7	431.3	74.37	6.800	
8,900.0	6,622.2	6,604.2	6,604.2	69.8	7.4	-86.05	113.0	1,794.2	605.2	528.1	77.06	7.854	
9,000.0	6,621.5	6,603.5	6,603.5	72.5	7.4	-85.40	113.0	1,794.2	704.8	625.1	79.74	8.838	
9,100.0	6,620.9	6,602.9	6,602.9	75.3	7.4	-84.75	113.0	1,794.2	804.5	722.1	82.42	9.761	
9,200.0	6,620.2	6,602.2	6,602.2	78.0	7.4	-84.10	113.0	1,794.2	904.3	819.2	85.09	10.628	

Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey Hoff 1 (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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
8,600.0	6,624.1	6,608.5	6,607.8	61.6	12.1	-93.32	197.0	3,006.7	921.2	847.6	73.58	12.520		
8,700.0	6,623.5	6,607.4	6,606.7	64.3	12.1	-92.90	197.0	3,006.7	822.7	746.3	76.33	10.778		
8,800.0	6,622.8	6,606.3	6,605.7	67.0	12.1	-92.49	197.0	3,006.7	724.5	645.4	79.08	9.161		
8,900.0	6,622.2	6,605.3	6,604.6	69.8	12.1	-92.08	197.0	3,006.7	626.9	545.1	81.84	7.660		
9,000.0	6,621.5	6,604.2	6,603.5	72.5	12.1	-91.66	197.0	3,006.7	530.2	445.6	84.61	6.267		
9,100.0	6,620.9	6,603.1	6,602.5	75.3	12.1	-91.25	197.0	3,006.7	435.1	347.7	87.37	4.980		
9,200.0	6,620.2	6,602.1	6,601.4	78.0	12.1	-90.83	196.9	3,006.7	342.7	252.5	90.13	3.802		
9,300.0	6,619.6	6,601.0	6,600.3	80.8	12.1	-90.42	196.9	3,006.7	256.0	163.1	92.90	2.756		
9,400.0	6,619.0	6,599.9	6,599.2	83.5	12.1	-90.00	196.9	3,006.7	183.4	87.8	95.66	1.918		
9,500.0	6,618.3	6,598.9	6,598.2	86.3	12.1	-89.58	196.9	3,006.7	147.5	49.1	98.42	1.499	Level 3	
9,509.4	6,618.2	6,598.8	6,598.1	86.6	12.1	-89.54	196.9	3,006.7	147.2	48.5	98.68	1.492	Level 3, CC, ES, SF	
9,600.0	6,617.7	6,597.8	6,597.1	89.1	12.1	-89.16	196.9	3,006.7	172.9	71.7	101.18	1.708		
9,700.0	6,617.0	6,596.7	6,596.0	91.8	12.1	-88.74	196.9	3,006.7	240.8	136.9	103.94	2.317		
9,800.0	6,616.4	6,595.6	6,594.9	94.6	12.1	-88.32	196.9	3,006.7	325.7	219.0	106.69	3.053		
9,900.0	6,615.7	6,594.5	6,593.8	97.4	12.1	-87.89	196.9	3,006.7	417.4	307.9	109.44	3.814		
10,000.0	6,615.1	6,593.4	6,592.7	100.2	12.1	-87.47	196.9	3,006.7	512.2	400.0	112.19	4.565		
10,100.0	6,614.4	6,592.3	6,591.6	102.9	12.1	-87.04	196.9	3,006.7	608.6	493.7	114.93	5.296		
10,200.0	6,613.8	6,591.2	6,590.5	105.7	12.1	-86.62	196.9	3,006.7	706.1	588.4	117.66	6.001		
10,300.0	6,613.1	6,590.1	6,589.4	108.5	12.1	-86.19	196.9	3,006.7	804.1	683.7	120.38	6.680		
10,400.0	6,612.5	6,589.0	6,588.3	111.3	12.1	-85.76	196.8	3,006.8	902.6	779.5	123.10	7.332		



<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Project:</b>	SEC.24-T5N-R65W	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Reference Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #3 (1-22-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Phil Wilson 19-1 (Exist) - Wellbore #1 - Wellbore #1												Offset Site Error: 0.0 ft		
Survey Program: 7600-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)			
11,300.0	6,606.7	6,606.7	6,606.7	136.4	132.1	-91.21	306.7	5,692.0	934.6	666.2	268.44	3.482		
11,400.0	6,606.0	6,606.0	6,606.0	139.2	132.1	-91.08	306.7	5,692.0	839.5	568.2	271.23	3.095		
11,500.0	6,605.4	6,605.4	6,605.4	142.0	132.1	-90.94	306.7	5,692.0	745.6	471.6	274.02	2.721		
11,600.0	6,604.7	6,604.7	6,604.7	144.8	132.1	-90.81	306.7	5,692.0	653.5	376.7	276.81	2.361		
11,700.0	6,604.1	6,604.1	6,604.1	147.5	132.1	-90.67	306.7	5,692.0	564.2	284.6	279.60	2.018		
11,800.0	6,603.5	6,603.5	6,603.5	150.3	132.1	-90.54	306.7	5,692.0	479.0	196.6	282.39	1.696		
11,900.0	6,602.8	6,602.8	6,602.8	153.1	132.1	-90.40	306.7	5,692.0	400.8	115.6	285.18	1.405 Level 3		
12,000.0	6,602.2	6,602.2	6,602.2	155.9	132.0	-90.26	306.7	5,692.0	334.4	46.5	287.97	1.161 Level 2		
12,100.0	6,601.5	6,601.5	6,601.5	158.7	132.0	-90.13	306.7	5,692.0	288.2	-2.6	290.76	0.991 Level 1		
12,194.0	6,600.9	6,600.9	6,600.9	161.4	132.0	-90.00	306.7	5,692.0	272.4	-21.0	293.38	0.928 Level 1, CC		
12,200.0	6,600.9	6,600.9	6,600.9	161.5	132.0	-89.99	306.7	5,692.0	272.5	-21.1	293.54	0.928 Level 1, ES, SF		
12,300.0	6,600.2	6,600.2	6,600.2	164.3	132.0	-89.86	306.7	5,692.0	292.3	-4.1	296.33	0.986 Level 1		
12,335.0	6,600.0	6,600.0	6,600.0	165.3	132.0	-89.81	306.7	5,692.0	306.7	9.4	297.30	1.032 Level 2		



Reference Depths are relative to WELL @ 4650.0ft (RKB - 15')	Coordinates are relative to: Maxey 24Q-112
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °	Grid Convergence at Surface is: 0.57°



<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Maxey 24Q-112
<b>Project:</b>	SEC.24-T5N-R65W	<b>TVD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Reference Site:</b>	Maxey 24Q-HZ Pad Sec.24-T5N-R65W	<b>MD Reference:</b>	WELL @ 4650.0ft (RKB - 15')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maxey 24Q-112	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #3 (1-22-14)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4650.0ft (RKB - 15')  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: Maxey 24Q-112  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.57°

