

# Great Western

Well Name: **Postle IC 11-379HN**

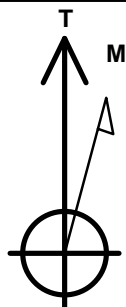
Surface Location: Postle East Pad Sec.12-T3N-R68W  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4925.1

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1328831.68	3150763.42	40.234781	-104.959992	
RKB - 16.5' WELL @ 4941.6ft (RKB - 16.5')						

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 468'FSL & 250'FWL, Sec.12	1.0	0.0	0.0	Point
BHL 470'FSL & 470'FWL, Sec.11	7100.7	-4.6	-5040.2	Point
Entry Pt. 470'FSL & 460'FEL, Sec.11	7100.7	-1.1	-710.3	Point



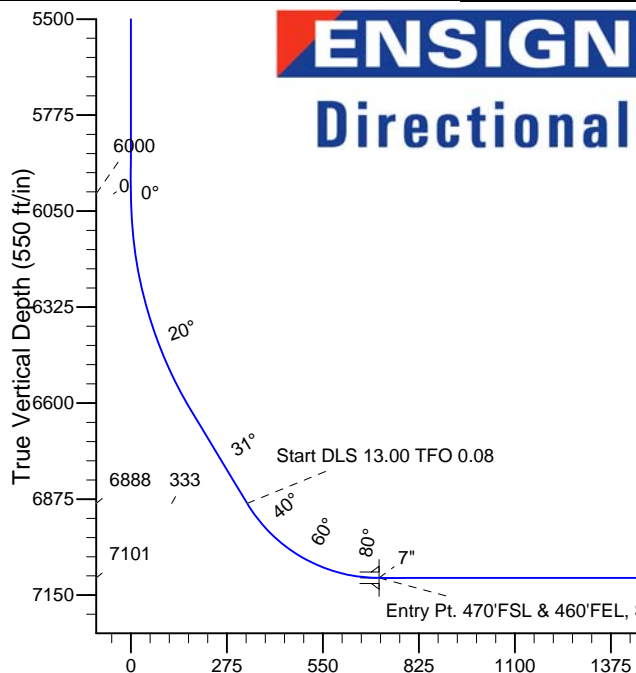
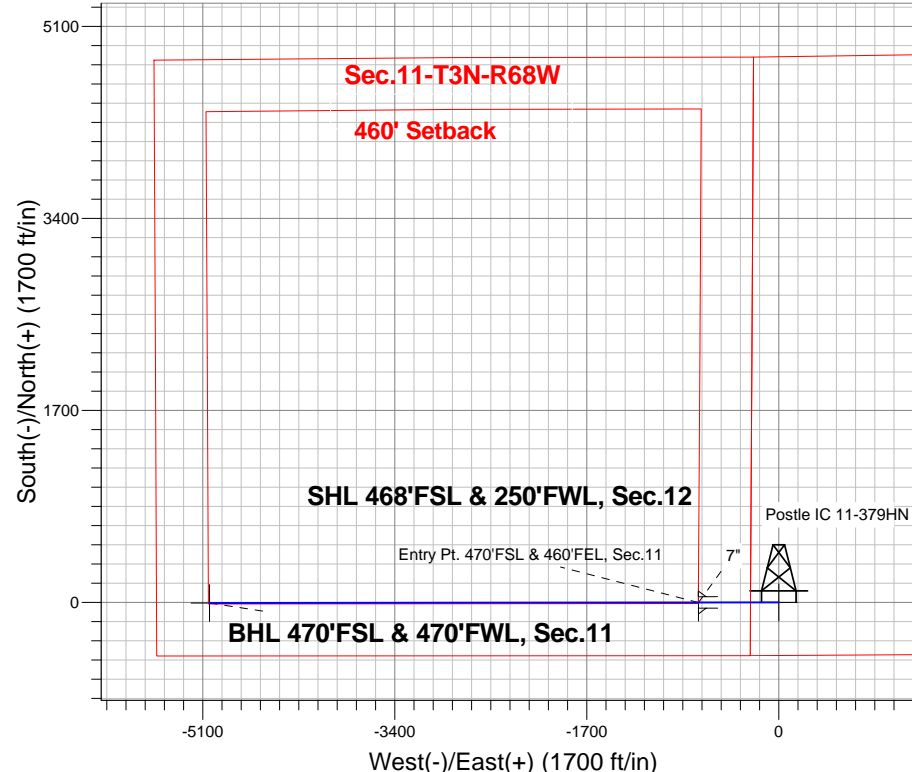
Azimuths to True North  
Magnetic North: 8.64°

Magnetic Field  
Strength: 52774.8snT  
Dip Angle: 66.80°  
Date: 10/23/2013  
Model: IGRF2010

Postle East Pad Sec.12-T3N-R68W  
Postle IC 11-379HN  
Plan #1 (10-23-13)  
9:35, October 24 2013

## ANNOTATIONS

TVD	MD	Annotation
6000.0	6000.0	KOP - Start Build 4.75
6887.6	6963.7	Start DLS 13.00 TFO 0.08
7100.7	11746.6	TD at 11746.6



## 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	6000.0	0.00	0.00	6000.0	0.0	0.0	0.00	0.00	0.0	
3	6654.9	31.10	269.89	6623.2	-0.3	-173.4	4.75	269.89	173.4	
4	6963.7	31.10	269.89	6887.6	-0.6	-332.9	0.00	0.00	332.9	
5	7416.8	90.00	269.96	7100.7	-1.1	-710.3	13.00	0.08	710.3	Entry Pt. 470'FSL & 460'FEL, Sec.11
6	7417.4	90.00	269.95	7100.7	-1.1	-710.9	1.00	-90.00	710.9	
7	11746.6	90.00	269.95	7100.7	-4.6	-5040.2	0.00	0.00	5040.2	BHL 470'FSL & 470'FWL, Sec.11

**BHL 470'FSL & 470'FWL, Sec.11**

TD at 11746.6

Vertical Section at 269.95° (550 ft/in)



## **Great Western**

**Sec.12-T3N-R68W**

**Postle East Pad Sec.12-T3N-R68W**

**Postle IC 11-379HN**

**Wellbore #1**

**Plan: Plan #1 (10-23-13)**

## **Standard Planning Report**

**24 October, 2013**

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	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,654.9	31.10	269.89	6,623.2	-0.3	-173.4	4.75	4.75	0.00	269.89	
6,963.7	31.10	269.89	6,887.6	-0.6	-332.9	0.00	0.00	0.00	0.00	
7,416.8	90.00	269.96	7,100.7	-1.1	-710.3	13.00	13.00	0.02	0.08	Entry Pt. 470'FSL &
7,417.4	90.00	269.95	7,100.7	-1.1	-710.9	1.00	0.00	-1.00	-90.00	
11,746.6	90.00	269.95	7,100.7	-4.6	-5,040.2	0.00	0.00	0.00	0.00	BHL 470'FSL & 470'

Planned Survey		Survey Data							
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
SHL 468'FSL & 250'FWL, Sec.12									
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
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-379HN
<b>Company:</b>	Great Western	<b>TVD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Project:</b>	Sec.12-T3N-R68W	<b>MD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Site:</b>	Postle East Pad Sec.12-T3N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Postle IC 11-379HN	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (10-23-13)		

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)
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP - Start Build 4.75</b>									
6,100.0	4.75	269.89	6,099.9	0.0	-4.1	4.1	4.75	4.75	0.00
6,200.0	9.50	269.89	6,199.1	0.0	-16.5	16.5	4.75	4.75	0.00
6,300.0	14.25	269.89	6,296.9	-0.1	-37.1	37.1	4.75	4.75	0.00
6,400.0	19.00	269.89	6,392.7	-0.1	-65.7	65.7	4.75	4.75	0.00
6,500.0	23.74	269.89	6,485.8	-0.2	-102.1	102.1	4.75	4.75	0.00
6,600.0	28.49	269.89	6,575.6	-0.3	-146.1	146.1	4.75	4.75	0.00
6,654.9	31.10	269.89	6,623.2	-0.3	-173.4	173.4	4.75	4.75	0.00
6,700.0	31.10	269.89	6,661.8	-0.4	-196.7	196.7	0.00	0.00	0.00
6,800.0	31.10	269.89	6,747.5	-0.5	-248.4	248.4	0.00	0.00	0.00
6,900.0	31.10	269.89	6,833.1	-0.6	-300.0	300.0	0.00	0.00	0.00
6,963.7	31.10	269.89	6,887.6	-0.6	-332.9	332.9	0.00	0.00	0.00
<b>Start DLS 13.00 TFO 0.08</b>									
7,000.0	35.82	269.90	6,917.9	-0.7	-352.9	352.9	13.01	13.01	0.03
7,100.0	48.82	269.92	6,991.7	-0.8	-420.1	420.1	13.00	13.00	0.02
7,200.0	61.82	269.94	7,048.5	-0.9	-502.2	502.2	13.00	13.00	0.01
7,300.0	74.82	269.95	7,085.3	-1.0	-594.9	594.9	13.00	13.00	0.01
7,400.0	87.82	269.96	7,100.4	-1.1	-693.5	693.5	13.00	13.00	0.01
7,416.8	89.99	269.96	7,100.7	-1.1	-710.3	710.3	12.97	12.97	0.01
<b>7" - Entry Pt. 470'FSL &amp; 460'FEL, Sec.11</b>									
7,417.4	90.00	269.95	7,100.7	-1.1	-710.9	710.9	1.30	0.84	-1.00
7,500.0	90.00	269.95	7,100.7	-1.1	-793.5	793.5	0.00	0.00	0.00
7,600.0	90.00	269.95	7,100.7	-1.2	-893.5	893.5	0.00	0.00	0.00
7,700.0	90.00	269.95	7,100.7	-1.3	-993.5	993.5	0.00	0.00	0.00
7,800.0	90.00	269.95	7,100.7	-1.4	-1,093.5	1,093.5	0.00	0.00	0.00
7,900.0	90.00	269.95	7,100.7	-1.5	-1,193.5	1,193.5	0.00	0.00	0.00
8,000.0	90.00	269.95	7,100.7	-1.5	-1,293.5	1,293.5	0.00	0.00	0.00
8,100.0	90.00	269.95	7,100.7	-1.6	-1,393.5	1,393.5	0.00	0.00	0.00
8,200.0	90.00	269.95	7,100.7	-1.7	-1,493.5	1,493.5	0.00	0.00	0.00
8,300.0	90.00	269.95	7,100.7	-1.8	-1,593.5	1,593.5	0.00	0.00	0.00
8,400.0	90.00	269.95	7,100.7	-1.9	-1,693.5	1,693.5	0.00	0.00	0.00
8,500.0	90.00	269.95	7,100.7	-2.0	-1,793.5	1,793.5	0.00	0.00	0.00
8,600.0	90.00	269.95	7,100.7	-2.0	-1,893.5	1,893.5	0.00	0.00	0.00
8,700.0	90.00	269.95	7,100.7	-2.1	-1,993.5	1,993.5	0.00	0.00	0.00
8,800.0	90.00	269.95	7,100.7	-2.2	-2,093.5	2,093.5	0.00	0.00	0.00
8,900.0	90.00	269.95	7,100.7	-2.3	-2,193.5	2,193.5	0.00	0.00	0.00
9,000.0	90.00	269.95	7,100.7	-2.4	-2,293.5	2,293.5	0.00	0.00	0.00
9,100.0	90.00	269.95	7,100.7	-2.4	-2,393.5	2,393.5	0.00	0.00	0.00
9,200.0	90.00	269.95	7,100.7	-2.5	-2,493.5	2,493.5	0.00	0.00	0.00
9,300.0	90.00	269.95	7,100.7	-2.6	-2,593.5	2,593.5	0.00	0.00	0.00
9,400.0	90.00	269.95	7,100.7	-2.7	-2,693.5	2,693.5	0.00	0.00	0.00
9,500.0	90.00	269.95	7,100.7	-2.8	-2,793.5	2,793.5	0.00	0.00	0.00
9,600.0	90.00	269.95	7,100.7	-2.8	-2,893.5	2,893.5	0.00	0.00	0.00
9,700.0	90.00	269.95	7,100.7	-2.9	-2,993.5	2,993.5	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-379HN
<b>Company:</b>	Great Western	<b>TVD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Project:</b>	Sec.12-T3N-R68W	<b>MD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Site:</b>	Postle East Pad Sec.12-T3N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Postle IC 11-379HN	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (10-23-13)		

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)	
9,800.0	90.00	269.95	7,100.7	-3.0	-3,093.5	3,093.5	0.00	0.00	0.00	
9,900.0	90.00	269.95	7,100.7	-3.1	-3,193.5	3,193.5	0.00	0.00	0.00	
10,000.0	90.00	269.95	7,100.7	-3.2	-3,293.5	3,293.5	0.00	0.00	0.00	
10,100.0	90.00	269.95	7,100.7	-3.2	-3,393.5	3,393.5	0.00	0.00	0.00	
10,200.0	90.00	269.95	7,100.7	-3.3	-3,493.5	3,493.5	0.00	0.00	0.00	
10,300.0	90.00	269.95	7,100.7	-3.4	-3,593.5	3,593.5	0.00	0.00	0.00	
10,400.0	90.00	269.95	7,100.7	-3.5	-3,693.5	3,693.5	0.00	0.00	0.00	
10,500.0	90.00	269.95	7,100.7	-3.6	-3,793.5	3,793.5	0.00	0.00	0.00	
10,600.0	90.00	269.95	7,100.7	-3.7	-3,893.5	3,893.5	0.00	0.00	0.00	
10,700.0	90.00	269.95	7,100.7	-3.7	-3,993.5	3,993.5	0.00	0.00	0.00	
10,800.0	90.00	269.95	7,100.7	-3.8	-4,093.5	4,093.5	0.00	0.00	0.00	
10,900.0	90.00	269.95	7,100.7	-3.9	-4,193.5	4,193.5	0.00	0.00	0.00	
11,000.0	90.00	269.95	7,100.7	-4.0	-4,293.5	4,293.5	0.00	0.00	0.00	
11,100.0	90.00	269.95	7,100.7	-4.1	-4,393.5	4,393.5	0.00	0.00	0.00	
11,200.0	90.00	269.95	7,100.7	-4.1	-4,493.5	4,493.5	0.00	0.00	0.00	
11,300.0	90.00	269.95	7,100.7	-4.2	-4,593.5	4,593.5	0.00	0.00	0.00	
11,400.0	90.00	269.95	7,100.7	-4.3	-4,693.5	4,693.5	0.00	0.00	0.00	
11,500.0	90.00	269.95	7,100.7	-4.4	-4,793.5	4,793.5	0.00	0.00	0.00	
11,600.0	90.00	269.95	7,100.7	-4.5	-4,893.5	4,893.5	0.00	0.00	0.00	
11,700.0	90.00	269.95	7,100.7	-4.5	-4,993.5	4,993.5	0.00	0.00	0.00	
11,746.6	90.00	269.95	7,100.7	-4.6	-5,040.1	5,040.1	0.00	0.00	0.00	
TD at 11746.6 - BHL 470'FSL & 470'FWL, Sec.11										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,416.8	7,100.7	7"	7	7-1/2	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
6,000.0	6,000.0	0.0	0.0	KOP - Start Build 4.75	
6,963.7	6,887.6	-0.6	-332.9	Start DLS 13.00 TFO 0.08	
11,746.6	7,100.7	-4.6	-5,040.1	TD at 11746.6	



## **Great Western**

**Sec.12-T3N-R68W**

**Postle East Pad Sec.12-T3N-R68W**

**Postle IC 11-379HN**

**Wellbore #1**

**Plan #1 (10-23-13)**

## **Anticollision Report**

**24 October, 2013**





<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-379HN
<b>Project:</b>	Sec.12-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Reference Site:</b>	Postle East Pad Sec.12-T3N-R68W	<b>MD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-379HN	<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 #1 (10-23-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7230-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	
2,200.0	2,200.0	2,200.0	2,200.0	5.7	5.7	0.00	59.4	0.0	59.4	48.0	11.41	5.202	
2,300.0	2,300.0	2,300.0	2,300.0	6.0	6.0	0.00	59.4	0.0	59.4	47.4	11.95	4.971	
2,400.0	2,400.0	2,400.0	2,400.0	6.2	6.2	0.00	59.4	0.0	59.4	46.9	12.48	4.760	
2,500.0	2,500.0	2,500.0	2,500.0	6.5	6.5	0.00	59.4	0.0	59.4	46.4	13.01	4.565	
2,600.0	2,600.0	2,600.0	2,600.0	6.8	6.8	0.00	59.4	0.0	59.4	45.8	13.54	4.386	
2,700.0	2,700.0	2,700.0	2,700.0	7.0	7.0	0.00	59.4	0.0	59.4	45.3	14.07	4.221	
2,800.0	2,800.0	2,800.0	2,800.0	7.3	7.3	0.00	59.4	0.0	59.4	44.8	14.60	4.067	
2,900.0	2,900.0	2,900.0	2,900.0	7.6	7.6	0.00	59.4	0.0	59.4	44.3	15.13	3.925	
3,000.0	3,000.0	3,000.0	3,000.0	7.8	7.8	0.00	59.4	0.0	59.4	43.7	15.66	3.792	
3,100.0	3,100.0	3,100.0	3,100.0	8.1	8.1	0.00	59.4	0.0	59.4	43.2	16.19	3.667	
3,200.0	3,200.0	3,200.0	3,200.0	8.4	8.4	0.00	59.4	0.0	59.4	42.7	16.72	3.551	
3,300.0	3,300.0	3,300.0	3,300.0	8.6	8.6	0.00	59.4	0.0	59.4	42.1	17.25	3.442	
3,400.0	3,400.0	3,400.0	3,400.0	8.9	8.9	0.00	59.4	0.0	59.4	41.6	17.78	3.339	
3,500.0	3,500.0	3,500.0	3,500.0	9.2	9.2	0.00	59.4	0.0	59.4	41.1	18.32	3.242	
3,600.0	3,600.0	3,600.0	3,600.0	9.4	9.4	0.00	59.4	0.0	59.4	40.5	18.85	3.151	
3,700.0	3,700.0	3,700.0	3,700.0	9.7	9.7	0.00	59.4	0.0	59.4	40.0	19.38	3.064	
3,800.0	3,800.0	3,800.0	3,800.0	10.0	10.0	0.00	59.4	0.0	59.4	39.5	19.91	2.983	
3,900.0	3,900.0	3,900.0	3,900.0	10.2	10.2	0.00	59.4	0.0	59.4	38.9	20.44	2.905	
4,000.0	4,000.0	4,000.0	4,000.0	10.5	10.5	0.00	59.4	0.0	59.4	38.4	20.97	2.832	
4,100.0	4,100.0	4,100.0	4,100.0	10.8	10.8	0.00	59.4	0.0	59.4	37.9	21.50	2.762	
4,200.0	4,200.0	4,200.0	4,200.0	11.0	11.0	0.00	59.4	0.0	59.4	37.3	22.03	2.695	
4,300.0	4,300.0	4,300.0	4,300.0	11.3	11.3	0.00	59.4	0.0	59.4	36.8	22.56	2.632	
4,400.0	4,400.0	4,400.0	4,400.0	11.5	11.5	0.00	59.4	0.0	59.4	36.3	23.09	2.571	
4,500.0	4,500.0	4,500.0	4,500.0	11.8	11.8	0.00	59.4	0.0	59.4	35.8	23.62	2.514	
4,600.0	4,600.0	4,600.0	4,600.0	12.1	12.1	0.00	59.4	0.0	59.4	35.2	24.16	2.458	
4,700.0	4,700.0	4,700.0	4,700.0	12.3	12.3	0.00	59.4	0.0	59.4	34.7	24.69	2.405	
4,800.0	4,800.0	4,800.0	4,800.0	12.6	12.6	0.00	59.4	0.0	59.4	34.2	25.22	2.355	
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	0.00	59.4	0.0	59.4	33.6	25.75	2.306	
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	0.00	59.4	0.0	59.4	33.1	26.28	2.260	
5,100.0	5,100.0	5,100.0	5,100.0	13.4	13.4	0.00	59.4	0.0	59.4	32.6	26.81	2.215	
5,200.0	5,200.0	5,200.0	5,200.0	13.7	13.7	0.00	59.4	0.0	59.4	32.0	27.34	2.172	
5,300.0	5,300.0	5,300.0	5,300.0	13.9	13.9	0.00	59.4	0.0	59.4	31.5	27.87	2.131	
5,400.0	5,400.0	5,400.0	5,400.0	14.2	14.2	0.00	59.4	0.0	59.4	31.0	28.40	2.091	
5,433.5	5,433.5	5,433.5	5,433.5	14.3	14.3	0.00	59.4	0.0	59.4	30.8	28.58	2.078 CC, ES	
5,500.0	5,500.0	5,498.7	5,498.7	14.5	14.5	-0.34	59.9	-0.4	59.9	31.0	28.92	2.072 SF	
5,600.0	5,600.0	5,595.9	5,595.7	14.7	14.7	-2.84	64.1	-3.2	64.3	34.9	29.42	2.186	
5,700.0	5,700.0	5,692.2	5,691.5	15.0	14.9	-6.91	72.4	-8.8	73.4	43.5	29.92	2.453	
5,800.0	5,800.0	5,787.3	5,785.5	15.3	15.2	-11.37	84.6	-17.0	87.5	57.1	30.42	2.876	
5,900.0	5,900.0	5,880.6	5,876.8	15.5	15.4	-15.41	100.4	-27.7	106.6	75.7	30.91	3.450	
6,000.0	6,000.0	5,971.9	5,965.1	15.8	15.6	-18.75	119.4	-40.5	130.9	99.5	31.40	4.168	
6,100.0	6,099.9	6,061.2	6,050.3	16.0	15.8	68.79	141.5	-55.5	158.5	126.7	31.77	4.990	
6,200.0	6,199.1	6,148.8	6,132.6	16.1	16.1	68.50	166.5	-72.3	187.8	155.7	32.05	5.858	
6,300.0	6,296.9	6,234.5	6,211.6	16.2	16.3	69.47	194.0	-90.9	218.7	186.3	32.32	6.765	
6,400.0	6,392.7	6,318.0	6,287.1	16.4	16.5	71.09	223.6	-110.9	251.5	218.9	32.60	7.715	
6,500.0	6,485.8	6,400.0	6,359.5	16.5	16.7	73.03	255.4	-132.3	286.7	253.8	32.89	8.716	
6,600.0	6,575.6	6,481.2	6,429.7	16.6	17.0	75.10	289.3	-155.2	324.4	291.2	33.21	9.766	
6,700.0	6,661.8	6,569.7	6,505.8	16.8	17.2	78.56	326.8	-180.5	362.9	329.2	33.64	10.786	
6,800.0	6,747.5	6,658.0	6,581.6	17.0	17.5	82.41	364.3	-205.8	402.9	368.8	34.10	11.816	
6,900.0	6,833.1	6,746.4	6,657.5	17.1	17.8	85.59	401.7	-231.1	444.3	409.8	34.53	12.868	
7,000.0	6,917.9	6,834.3	6,733.1	17.3	18.0	86.20	439.0	-256.3	486.7	451.7	34.95	13.925	
7,100.0	6,991.7	6,916.9	6,804.1	17.6	18.3	84.17	474.0	-279.9	529.4	494.1	35.36	14.972	
7,200.0	7,048.5	7,038.1	6,904.2	18.7	18.7	85.23	523.4	-326.1	571.6	535.7	35.92	15.912	

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

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<b>Reference Site:</b>	Postle East Pad Sec.12-T3N-R68W	<b>MD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-379HN	<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 #1 (10-23-13)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Postle East Pad Sec.12-T3N-R68W - Postle IC 11-302HN - Wellbore #1 - Plan #1 (10-23-13)												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7230-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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
7,300.0	7,085.3	7,218.9	7,023.9	18.8	19.3	88.02	582.4	-446.1	605.2	568.6	36.61	16.530	
7,400.0	7,100.4	7,463.6	7,099.5	18.9	20.5	89.99	619.5	-672.6	620.9	582.7	38.23	16.240	
7,500.0	7,100.7	7,585.3	7,100.7	19.7	21.1	90.00	620.0	-794.3	621.1	580.6	40.52	15.328	
7,600.0	7,100.7	7,685.3	7,100.7	21.0	22.3	90.00	619.8	-894.3	621.1	577.8	43.24	14.364	
7,700.0	7,100.7	7,785.3	7,100.7	22.6	23.9	90.00	619.7	-994.3	621.0	574.5	46.47	13.362	
7,800.0	7,100.7	7,885.3	7,100.7	24.4	25.7	90.00	619.6	-1,094.3	621.0	570.8	50.13	12.386	
7,900.0	7,100.7	7,985.3	7,100.7	26.4	27.7	90.00	619.5	-1,194.3	620.9	566.8	54.13	11.471	
8,000.0	7,100.7	8,085.3	7,100.7	28.6	29.9	90.00	619.3	-1,294.3	620.9	562.5	58.39	10.633	
8,100.0	7,100.7	8,185.3	7,100.7	30.8	32.1	90.00	619.2	-1,394.3	620.8	558.0	62.86	9.876	
8,200.0	7,100.7	8,285.3	7,100.7	33.1	34.4	90.00	619.1	-1,494.3	620.8	553.3	67.51	9.196	
8,300.0	7,100.7	8,385.3	7,100.7	35.5	36.8	90.00	619.0	-1,594.3	620.8	548.5	72.29	8.587	
8,400.0	7,100.7	8,485.3	7,100.7	38.0	39.2	90.00	618.8	-1,694.3	620.7	543.5	77.18	8.042	
8,500.0	7,100.7	8,585.3	7,100.7	40.5	41.7	90.00	618.7	-1,794.3	620.7	538.5	82.17	7.554	
8,600.0	7,100.7	8,685.3	7,100.7	43.0	44.2	90.00	618.6	-1,894.3	620.6	533.4	87.23	7.115	
8,700.0	7,100.7	8,785.3	7,100.7	45.6	46.8	90.00	618.5	-1,994.3	620.6	528.2	92.35	6.720	
8,800.0	7,100.7	8,885.3	7,100.7	48.2	49.4	90.00	618.4	-2,094.3	620.6	523.0	97.53	6.362	
8,900.0	7,100.7	8,985.3	7,100.7	50.8	52.0	90.00	618.2	-2,194.3	620.5	517.8	102.76	6.039	
9,000.0	7,100.7	9,085.3	7,100.7	53.4	54.6	90.00	618.1	-2,294.3	620.5	512.4	108.02	5.744	
9,100.0	7,100.7	9,185.3	7,100.7	56.1	57.2	90.00	618.0	-2,394.3	620.4	507.1	113.32	5.475	
9,200.0	7,100.7	9,285.3	7,100.7	58.8	59.9	90.00	617.9	-2,494.3	620.4	501.7	118.64	5.229	
9,300.0	7,100.7	9,385.3	7,100.7	61.4	62.6	90.00	617.7	-2,594.3	620.3	496.4	123.99	5.003	
9,400.0	7,100.7	9,485.3	7,100.7	64.1	65.2	90.00	617.6	-2,694.3	620.3	490.9	129.36	4.795	
9,500.0	7,100.7	9,585.3	7,100.7	66.8	67.9	90.00	617.5	-2,794.3	620.3	485.5	134.75	4.603	
9,600.0	7,100.7	9,685.3	7,100.7	69.5	70.6	90.00	617.4	-2,894.3	620.2	480.1	140.16	4.425	
9,700.0	7,100.7	9,785.3	7,100.7	72.3	73.3	90.00	617.3	-2,994.3	620.2	474.6	145.59	4.260	
9,800.0	7,100.7	9,885.3	7,100.7	75.0	76.0	90.00	617.1	-3,094.3	620.1	469.1	151.03	4.106	
9,900.0	7,100.7	9,985.3	7,100.7	77.7	78.8	90.00	617.0	-3,194.3	620.1	463.6	156.48	3.963	
10,000.0	7,100.7	10,085.3	7,100.7	80.4	81.5	90.00	616.9	-3,294.3	620.0	458.1	161.94	3.829	
10,100.0	7,100.7	10,185.3	7,100.7	83.2	84.2	90.00	616.8	-3,394.3	620.0	452.6	167.41	3.704	
10,200.0	7,100.7	10,285.3	7,100.7	85.9	87.0	90.00	616.6	-3,494.3	620.0	447.1	172.89	3.586	
10,300.0	7,100.7	10,385.3	7,100.7	88.7	89.7	90.00	616.5	-3,594.3	619.9	441.5	178.38	3.475	
10,400.0	7,100.7	10,485.3	7,100.7	91.4	92.5	90.00	616.4	-3,694.3	619.9	436.0	183.87	3.371	
10,500.0	7,100.7	10,585.3	7,100.7	94.2	95.2	90.00	616.3	-3,794.3	619.8	430.5	189.37	3.273	
10,600.0	7,100.7	10,685.3	7,100.7	96.9	98.0	90.00	616.1	-3,894.3	619.8	424.9	194.88	3.180	
10,700.0	7,100.7	10,785.3	7,100.7	99.7	100.7	90.00	616.0	-3,994.3	619.8	419.4	200.40	3.093	
10,800.0	7,100.7	10,885.3	7,100.7	102.5	103.5	90.00	615.9	-4,094.3	619.7	413.8	205.91	3.010	
10,900.0	7,100.7	10,985.3	7,100.7	105.2	106.2	90.00	615.8	-4,194.3	619.7	408.2	211.44	2.931	
11,000.0	7,100.7	11,085.3	7,100.7	108.0	109.0	90.00	615.7	-4,294.3	619.6	402.7	216.97	2.856	
11,100.0	7,100.7	11,185.3	7,100.7	110.8	111.8	90.00	615.5	-4,394.3	619.6	397.1	222.50	2.785	
11,200.0	7,100.7	11,285.3	7,100.7	113.5	114.5	90.00	615.4	-4,494.3	619.5	391.5	228.04	2.717	
11,300.0	7,100.7	11,385.3	7,100.7	116.3	117.3	90.00	615.3	-4,594.3	619.5	385.9	233.58	2.652	
11,400.0	7,100.7	11,485.3	7,100.7	119.1	120.1	90.00	615.2	-4,694.3	619.5	380.3	239.12	2.591	
11,500.0	7,100.7	11,585.3	7,100.7	121.8	122.8	90.00	615.0	-4,794.3	619.4	374.8	244.67	2.532	
11,600.0	7,100.7	11,685.3	7,100.7	124.6	125.6	90.00	614.9	-4,894.3	619.4	369.2	250.22	2.475	
11,700.0	7,100.7	11,785.3	7,100.7	127.4	128.4	90.00	614.8	-4,994.3	619.3	363.6	255.77	2.421	
11,746.6	7,100.7	11,831.9	7,100.7	128.7	129.7	90.00	614.7	-5,040.9	619.3	361.0	258.36	2.397	

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<b>Reference Site:</b>	Postle East Pad Sec.12-T3N-R68W	<b>MD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-379HN	<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 #1 (10-23-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7355-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.00	29.1	0.0	29.1					
100.0	100.0	100.0	100.0	0.1	0.1	0.00	29.1	0.0	29.1	28.9	0.27	109.793		
200.0	200.0	200.0	200.0	0.4	0.4	0.00	29.1	0.0	29.1	28.3	0.80	36.598		
300.0	300.0	300.0	300.0	0.7	0.7	0.00	29.1	0.0	29.1	27.8	1.33	21.959		
400.0	400.0	400.0	400.0	0.9	0.9	0.00	29.1	0.0	29.1	27.3	1.86	15.685		
500.0	500.0	500.0	500.0	1.2	1.2	0.00	29.1	0.0	29.1	26.8	2.39	12.199		
600.0	600.0	600.0	600.0	1.5	1.5	0.00	29.1	0.0	29.1	26.2	2.92	9.981		
700.0	700.0	700.0	700.0	1.7	1.7	0.00	29.1	0.0	29.1	25.7	3.45	8.446		
800.0	800.0	800.0	800.0	2.0	2.0	0.00	29.1	0.0	29.1	25.2	3.98	7.320		
900.0	900.0	900.0	900.0	2.3	2.3	0.00	29.1	0.0	29.1	24.6	4.51	6.458		
1,000.0	1,000.0	1,000.0	1,000.0	2.5	2.5	0.00	29.1	0.0	29.1	24.1	5.04	5.779		
1,100.0	1,100.0	1,100.0	1,100.0	2.8	2.8	0.00	29.1	0.0	29.1	23.6	5.57	5.228		
1,200.0	1,200.0	1,200.0	1,200.0	3.1	3.1	0.00	29.1	0.0	29.1	23.0	6.11	4.774		
1,300.0	1,300.0	1,300.0	1,300.0	3.3	3.3	0.00	29.1	0.0	29.1	22.5	6.64	4.392		
1,400.0	1,400.0	1,400.0	1,400.0	3.6	3.6	0.00	29.1	0.0	29.1	22.0	7.17	4.066		
1,500.0	1,500.0	1,500.0	1,500.0	3.8	3.8	0.00	29.1	0.0	29.1	21.4	7.70	3.786		
1,600.0	1,600.0	1,600.0	1,600.0	4.1	4.1	0.00	29.1	0.0	29.1	20.9	8.23	3.542		
1,700.0	1,700.0	1,700.0	1,700.0	4.4	4.4	0.00	29.1	0.0	29.1	20.4	8.76	3.327		
1,800.0	1,800.0	1,800.0	1,800.0	4.6	4.6	0.00	29.1	0.0	29.1	19.9	9.29	3.137		
1,900.0	1,900.0	1,900.0	1,900.0	4.9	4.9	0.00	29.1	0.0	29.1	19.3	9.82	2.967		
2,000.0	2,000.0	2,000.0	2,000.0	5.2	5.2	0.00	29.1	0.0	29.1	18.8	10.35	2.815		
2,100.0	2,100.0	2,100.0	2,100.0	5.4	5.4	0.00	29.1	0.0	29.1	18.3	10.88	2.678		
2,200.0	2,200.0	2,200.0	2,200.0	5.7	5.7	0.00	29.1	0.0	29.1	17.7	11.41	2.553		
2,300.0	2,300.0	2,300.0	2,300.0	6.0	6.0	0.00	29.1	0.0	29.1	17.2	11.95	2.440		
2,400.0	2,400.0	2,400.0	2,400.0	6.2	6.2	0.00	29.1	0.0	29.1	16.7	12.48	2.336		
2,500.0	2,500.0	2,500.0	2,500.0	6.5	6.5	0.00	29.1	0.0	29.1	16.1	13.01	2.241		
2,600.0	2,600.0	2,600.0	2,600.0	6.8	6.8	0.00	29.1	0.0	29.1	15.6	13.54	2.153		
2,700.0	2,700.0	2,700.0	2,700.0	7.0	7.0	0.00	29.1	0.0	29.1	15.1	14.07	2.072		
2,800.0	2,800.0	2,800.0	2,800.0	7.3	7.3	0.00	29.1	0.0	29.1	14.5	14.60	1.996		
2,900.0	2,900.0	2,900.0	2,900.0	7.6	7.6	0.00	29.1	0.0	29.1	14.0	15.13	1.926		
3,000.0	3,000.0	3,000.0	3,000.0	7.8	7.8	0.00	29.1	0.0	29.1	13.5	15.66	1.861		
3,100.0	3,100.0	3,100.0	3,100.0	8.1	8.1	0.00	29.1	0.0	29.1	13.0	16.19	1.800		
3,200.0	3,200.0	3,200.0	3,200.0	8.4	8.4	0.00	29.1	0.0	29.1	12.4	16.72	1.743		
3,300.0	3,300.0	3,300.0	3,300.0	8.6	8.6	0.00	29.1	0.0	29.1	11.9	17.25	1.689		
3,400.0	3,400.0	3,400.0	3,400.0	8.9	8.9	0.00	29.1	0.0	29.1	11.4	17.78	1.639		
3,500.0	3,500.0	3,500.0	3,500.0	9.2	9.2	0.00	29.1	0.0	29.1	10.8	18.32	1.591		
3,600.0	3,600.0	3,600.0	3,600.0	9.4	9.4	0.00	29.1	0.0	29.1	10.3	18.85	1.546		
3,700.0	3,700.0	3,700.0	3,700.0	9.7	9.7	0.00	29.1	0.0	29.1	9.8	19.38	1.504		
3,800.0	3,800.0	3,800.0	3,800.0	10.0	10.0	0.00	29.1	0.0	29.1	9.2	19.91	1.464 Level 3		
3,900.0	3,900.0	3,900.0	3,900.0	10.2	10.2	0.00	29.1	0.0	29.1	8.7	20.44	1.426 Level 3		
4,000.0	4,000.0	4,000.0	4,000.0	10.5	10.5	0.00	29.1	0.0	29.1	8.2	20.97	1.390 Level 3		
4,100.0	4,100.0	4,100.0	4,100.0	10.8	10.8	0.00	29.1	0.0	29.1	7.6	21.50	1.355 Level 3		
4,200.0	4,200.0	4,200.0	4,200.0	11.0	11.0	0.00	29.1	0.0	29.1	7.1	22.03	1.323 Level 3		
4,300.0	4,300.0	4,300.0	4,300.0	11.3	11.3	0.00	29.1	0.0	29.1	6.6	22.56	1.292 Level 3		
4,400.0	4,400.0	4,400.0	4,400.0	11.5	11.5	0.00	29.1	0.0	29.1	6.1	23.09	1.262 Level 3		
4,500.0	4,500.0	4,500.0	4,500.0	11.8	11.8	0.00	29.1	0.0	29.1	5.5	23.62	1.234 Level 2		
4,600.0	4,600.0	4,600.0	4,600.0	12.1	12.1	0.00	29.1	0.0	29.1	5.0	24.16	1.207 Level 2		
4,700.0	4,700.0	4,700.0	4,700.0	12.3	12.3	0.00	29.1	0.0	29.1	4.5	24.69	1.181 Level 2		
4,800.0	4,800.0	4,800.0	4,800.0	12.6	12.6	0.00	29.1	0.0	29.1	3.9	25.22	1.156 Level 2		
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	0.00	29.1	0.0	29.1	3.4	25.75	1.132 Level 2		
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	0.00	29.1	0.0	29.1	2.9	26.28	1.109 Level 2		
5,100.0	5,100.0	5,100.0	5,100.0	13.4	13.4	0.00	29.1	0.0	29.1	2.3	26.81	1.087 Level 2		

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

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-379HN
<b>Project:</b>	Sec.12-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Reference Site:</b>	Postle East Pad Sec.12-T3N-R68W	<b>MD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-379HN	<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 #1 (10-23-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7355-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		
5,200.0	5,200.0	5,200.0	5,200.0	13.7	13.7	0.00	29.1	0.0	29.1	1.8	27.34	1.066	Level 2	
5,300.0	5,300.0	5,300.0	5,300.0	13.9	13.9	0.00	29.1	0.0	29.1	1.3	27.87	1.046	Level 2	
5,400.0	5,400.0	5,400.0	5,400.0	14.2	14.2	0.00	29.1	0.0	29.1	0.7	28.40	1.026	Level 2	
5,500.0	5,500.0	5,500.0	5,500.0	14.5	14.5	0.00	29.1	0.0	29.1	0.2	28.93	1.007	Level 2	
5,600.0	5,600.0	5,600.0	5,600.0	14.7	14.7	0.00	29.1	0.0	29.1	-0.3	29.46	0.989	Level 1	
5,700.0	5,700.0	5,700.0	5,700.0	15.0	15.0	0.00	29.1	0.0	29.1	-0.9	30.00	0.972	Level 1	
5,800.0	5,800.0	5,800.0	5,800.0	15.3	15.3	0.00	29.1	0.0	29.1	-1.4	30.53	0.955	Level 1, CC, ES, SF	
5,900.0	5,900.0	5,899.0	5,898.9	15.5	15.5	-4.19	30.7	-2.2	30.8	-0.2	31.02	0.993	Level 1	
6,000.0	6,000.0	5,997.4	5,997.0	15.8	15.7	-14.22	35.3	-8.9	36.5	5.0	31.49	1.160	Level 2	
6,100.0	6,099.9	6,095.0	6,093.7	16.0	15.9	69.33	42.8	-19.9	46.1	14.2	31.86	1.447	Level 3	
6,200.0	6,199.1	6,192.1	6,189.0	16.1	16.1	69.51	53.3	-35.2	57.4	25.2	32.14	1.785		
6,300.0	6,296.9	6,288.4	6,282.4	16.2	16.3	73.09	66.5	-54.5	70.3	37.9	32.44	2.169		
6,400.0	6,392.7	6,383.9	6,373.6	16.4	16.5	78.16	82.4	-77.6	85.6	52.8	32.77	2.611		
6,500.0	6,485.8	6,478.4	6,462.3	16.5	16.7	83.57	100.9	-104.4	103.8	70.6	33.14	3.132		
6,600.0	6,575.6	6,572.5	6,548.9	16.6	16.9	88.78	121.8	-134.9	125.4	91.9	33.51	3.744		
6,700.0	6,661.8	6,668.2	6,636.4	16.8	17.1	94.97	143.8	-167.0	149.4	115.6	33.82	4.418		
6,800.0	6,747.5	6,763.8	6,723.6	17.0	17.4	100.30	165.8	-199.0	175.1	141.0	34.08	5.139		
6,900.0	6,833.1	6,859.3	6,810.9	17.1	17.6	104.26	187.8	-231.1	201.9	167.5	34.33	5.879		
7,000.0	6,917.9	6,954.5	6,897.8	17.3	17.9	106.28	209.8	-263.0	229.7	195.2	34.54	6.652		
7,100.0	6,991.7	7,044.4	6,980.0	17.6	18.1	107.96	230.5	-293.2	264.1	229.7	34.42	7.673		
7,200.0	7,048.5	7,174.1	7,091.5	18.7	18.4	112.77	259.0	-351.9	303.2	269.6	33.65	9.010		
7,300.0	7,085.3	7,341.5	7,202.5	18.8	18.9	116.66	288.6	-472.3	335.6	302.9	32.67	10.270		
7,400.0	7,100.4	7,545.1	7,267.3	18.9	20.1	118.52	308.2	-662.4	352.8	319.8	32.98	10.696		
7,500.0	7,100.7	7,670.3	7,269.7	19.7	20.6	118.42	311.2	-787.4	355.2	320.2	34.98	10.154		
7,600.0	7,100.7	7,770.2	7,269.7	21.0	21.8	118.26	313.2	-887.4	357.0	319.6	37.40	9.546		
7,700.0	7,100.7	7,870.2	7,269.7	22.6	23.4	118.11	315.1	-987.4	358.8	318.5	40.30	8.903		
7,800.0	7,100.7	7,970.2	7,269.7	24.4	25.1	117.96	317.1	-1,087.3	360.6	317.0	43.60	8.271		
7,900.0	7,100.7	8,070.2	7,269.7	26.4	27.1	117.80	319.0	-1,187.3	362.4	315.1	47.21	7.676		
8,000.0	7,100.7	8,170.2	7,269.7	28.6	29.2	117.66	321.0	-1,287.2	364.2	313.1	51.08	7.130		
8,100.0	7,100.7	8,270.1	7,269.7	30.8	31.3	117.51	322.9	-1,387.2	366.0	310.8	55.15	6.636		
8,200.0	7,100.7	8,370.1	7,269.7	33.1	33.6	117.36	324.9	-1,487.2	367.8	308.4	59.38	6.194		
8,300.0	7,100.7	8,470.1	7,269.7	35.5	36.0	117.22	326.8	-1,587.1	369.6	305.8	63.74	5.798		
8,400.0	7,100.7	8,570.1	7,269.7	38.0	38.4	117.07	328.8	-1,687.1	371.4	303.2	68.22	5.444		
8,500.0	7,100.7	8,670.1	7,269.7	40.5	40.9	116.93	330.7	-1,787.0	373.2	300.4	72.79	5.127		
8,600.0	7,100.7	8,770.0	7,269.7	43.0	43.4	116.79	332.7	-1,887.0	375.0	297.6	77.44	4.843		
8,700.0	7,100.7	8,870.0	7,269.7	45.6	46.0	116.65	334.6	-1,987.0	376.8	294.7	82.15	4.587		
8,800.0	7,100.7	8,970.0	7,269.7	48.2	48.5	116.51	336.6	-2,086.9	378.6	291.7	86.92	4.356		
8,900.0	7,100.7	9,070.0	7,269.7	50.8	51.1	116.38	338.5	-2,186.9	380.5	288.7	91.74	4.147		
9,000.0	7,100.7	9,170.0	7,269.7	53.4	53.8	116.24	340.5	-2,286.8	382.3	285.7	96.60	3.957		
9,100.0	7,100.7	9,269.9	7,269.7	56.1	56.4	116.11	342.4	-2,386.8	384.1	282.6	101.50	3.784		
9,200.0	7,100.7	9,369.9	7,269.7	58.8	59.0	115.98	344.4	-2,486.8	385.9	279.5	106.44	3.626		
9,300.0	7,100.7	9,469.9	7,269.7	61.4	61.7	115.84	346.3	-2,586.7	387.7	276.3	111.40	3.481		
9,400.0	7,100.7	9,569.9	7,269.7	64.1	64.4	115.71	348.3	-2,686.7	389.6	273.2	116.40	3.347		
9,500.0	7,100.7	9,669.9	7,269.7	66.8	67.1	115.58	350.2	-2,786.6	391.4	270.0	121.42	3.224		
9,600.0	7,100.7	9,769.8	7,269.7	69.5	69.8	115.46	352.2	-2,886.6	393.2	266.8	126.46	3.110		
9,700.0	7,100.7	9,869.8	7,269.7	72.3	72.5	115.33	354.1	-2,986.6	395.1	263.6	131.53	3.004		
9,800.0	7,100.7	9,969.8	7,269.7	75.0	75.2	115.20	356.1	-3,086.5	396.9	260.3	136.62	2.905		
9,900.0	7,100.7	10,069.8	7,269.7	77.7	77.9	115.08	358.0	-3,186.5	398.8	257.0	141.72	2.814		
10,000.0	7,100.7	10,169.8	7,269.7	80.4	80.7	114.96	360.0	-3,286.4	400.6	253.8	146.84	2.728		
10,100.0	7,100.7	10,269.7	7,269.7	83.2	83.4	114.84	361.9	-3,386.4	402.4	250.5	151.98	2.648		
10,200.0	7,100.7	10,369.7	7,269.7	85.9	86.1	114.71	363.9	-3,486.4	404.3	247.2	157.13	2.573		
10,300.0	7,100.7	10,469.7	7,269.7	88.7	88.9	114.59	365.8	-3,586.3	406.1	243.8	162.30	2.502		

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

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-379HN
<b>Project:</b>	Sec.12-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Reference Site:</b>	Postle East Pad Sec.12-T3N-R68W	<b>MD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-379HN	<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 #1 (10-23-13)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Postle East Pad Sec.12-T3N-R68W - Postle IC 11-342HC - Wellbore #1 - Plan #1 (10-23-13)												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7355-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
10,400.0	7,100.7	10,569.7	7,269.7	91.4	91.6	114.48	367.8	-3,686.3	408.0	240.5	167.48	2.436	
10,500.0	7,100.7	10,669.7	7,269.7	94.2	94.4	114.36	369.7	-3,786.2	409.8	237.2	172.67	2.373	
10,600.0	7,100.7	10,769.6	7,269.7	96.9	97.1	114.24	371.7	-3,886.2	411.7	233.8	177.88	2.314	
10,700.0	7,100.7	10,869.6	7,269.7	99.7	99.9	114.13	373.6	-3,986.2	413.5	230.4	183.09	2.259	
10,800.0	7,100.7	10,969.6	7,269.7	102.5	102.7	114.01	375.6	-4,086.1	415.4	227.1	188.32	2.206	
10,900.0	7,100.7	11,069.6	7,269.7	105.2	105.4	113.90	377.5	-4,186.1	417.2	223.7	193.56	2.156	
11,000.0	7,100.7	11,169.5	7,269.7	108.0	108.2	113.79	379.5	-4,286.0	419.1	220.3	198.81	2.108	
11,100.0	7,100.7	11,269.5	7,269.7	110.8	111.0	113.67	381.4	-4,386.0	421.0	216.9	204.07	2.063	
11,200.0	7,100.7	11,369.5	7,269.7	113.5	113.7	113.56	383.4	-4,486.0	422.8	213.5	209.34	2.020	
11,300.0	7,100.7	11,469.5	7,269.7	116.3	116.5	113.45	385.3	-4,585.9	424.7	210.1	214.61	1.979	
11,400.0	7,100.7	11,569.5	7,269.7	119.1	119.3	113.34	387.3	-4,685.9	426.6	206.7	219.90	1.940	
11,500.0	7,100.7	11,669.4	7,269.7	121.8	122.0	113.24	389.2	-4,785.8	428.4	203.2	225.19	1.902	
11,600.0	7,100.7	11,769.4	7,269.7	124.6	124.8	113.13	391.2	-4,885.8	430.3	199.8	230.49	1.867	
11,700.0	7,100.7	11,869.4	7,269.7	127.4	127.6	113.02	393.1	-4,985.8	432.2	196.4	235.80	1.833	
11,746.6	7,100.7	11,916.0	7,269.7	128.7	128.9	112.98	394.0	-5,032.4	433.0	194.8	238.28	1.817	

Postle East Pad Sec.12-T3N-R68W - Postle IC 11-382HN - Wellbore #1 - Plan #1 (10-23-13)												Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7215-MWVD												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	-178.95	-30.6	-0.6	30.6				
100.0	100.0	100.0	100.0	0.1	0.1	-178.95	-30.6	-0.6	30.6	30.3	0.27	115.317	
200.0	200.0	200.0	200.0	0.4	0.4	-178.95	-30.6	-0.6	30.6	29.8	0.80	38.439	
300.0	300.0	300.0	300.0	0.7	0.7	-178.95	-30.6	-0.6	30.6	29.3	1.33	23.063	
400.0	400.0	400.0	400.0	0.9	0.9	-178.95	-30.6	-0.6	30.6	28.8	1.86	16.474	
500.0	500.0	500.0	500.0	1.2	1.2	-178.95	-30.6	-0.6	30.6	28.2	2.39	12.813	
600.0	600.0	600.0	600.0	1.5	1.5	-178.95	-30.6	-0.6	30.6	27.7	2.92	10.483	
700.0	700.0	700.0	700.0	1.7	1.7	-178.95	-30.6	-0.6	30.6	27.2	3.45	8.871	
800.0	800.0	800.0	800.0	2.0	2.0	-178.95	-30.6	-0.6	30.6	26.6	3.98	7.688	
900.0	900.0	900.0	900.0	2.3	2.3	-178.95	-30.6	-0.6	30.6	26.1	4.51	6.783	
1,000.0	1,000.0	1,000.0	1,000.0	2.5	2.5	-178.95	-30.6	-0.6	30.6	25.6	5.04	6.069	
1,100.0	1,100.0	1,100.0	1,100.0	2.8	2.8	-178.95	-30.6	-0.6	30.6	25.0	5.57	5.491	
1,200.0	1,200.0	1,200.0	1,200.0	3.1	3.1	-178.95	-30.6	-0.6	30.6	24.5	6.11	5.014	
1,300.0	1,300.0	1,300.0	1,300.0	3.3	3.3	-178.95	-30.6	-0.6	30.6	24.0	6.64	4.613	
1,400.0	1,400.0	1,400.0	1,400.0	3.6	3.6	-178.95	-30.6	-0.6	30.6	23.4	7.17	4.271	
1,500.0	1,500.0	1,500.0	1,500.0	3.8	3.8	-178.95	-30.6	-0.6	30.6	22.9	7.70	3.976	
1,600.0	1,600.0	1,600.0	1,600.0	4.1	4.1	-178.95	-30.6	-0.6	30.6	22.4	8.23	3.720	
1,700.0	1,700.0	1,700.0	1,700.0	4.4	4.4	-178.95	-30.6	-0.6	30.6	21.9	8.76	3.494	
1,800.0	1,800.0	1,800.0	1,800.0	4.6	4.6	-178.95	-30.6	-0.6	30.6	21.3	9.29	3.295	
1,900.0	1,900.0	1,900.0	1,900.0	4.9	4.9	-178.95	-30.6	-0.6	30.6	20.8	9.82	3.117	
2,000.0	2,000.0	2,000.0	2,000.0	5.2	5.2	-178.95	-30.6	-0.6	30.6	20.3	10.35	2.957	
2,100.0	2,100.0	2,100.0	2,100.0	5.4	5.4	-178.95	-30.6	-0.6	30.6	19.7	10.88	2.813	
2,200.0	2,200.0	2,200.0	2,200.0	5.7	5.7	-178.95	-30.6	-0.6	30.6	19.2	11.41	2.682	
2,300.0	2,300.0	2,300.0	2,300.0	6.0	6.0	-178.95	-30.6	-0.6	30.6	18.7	11.95	2.563	
2,400.0	2,400.0	2,400.0	2,400.0	6.2	6.2	-178.95	-30.6	-0.6	30.6	18.1	12.48	2.454	
2,500.0	2,500.0	2,500.0	2,500.0	6.5	6.5	-178.95	-30.6	-0.6	30.6	17.6	13.01	2.353	
2,600.0	2,600.0	2,600.0	2,600.0	6.8	6.8	-178.95	-30.6	-0.6	30.6	17.1	13.54	2.261	
2,700.0	2,700.0	2,700.0	2,700.0	7.0	7.0	-178.95	-30.6	-0.6	30.6	16.5	14.07	2.176	
2,800.0	2,800.0	2,800.0	2,800.0	7.3	7.3	-178.95	-30.6	-0.6	30.6	16.0	14.60	2.097	
2,900.0	2,900.0	2,900.0	2,900.0	7.6	7.6	-178.95	-30.6	-0.6	30.6	15.5	15.13	2.023	
3,000.0	3,000.0	3,000.0	3,000.0	7.8	7.8	-178.95	-30.6	-0.6	30.6	14.9	15.66	1.955	
3,100.0	3,100.0	3,100.0	3,100.0	8.1	8.1	-178.95	-30.6	-0.6	30.6	14.4	16.19	1.890	
3,200.0	3,200.0	3,200.0	3,200.0	8.4	8.4	-178.95	-30.6	-0.6	30.6	13.9	16.72	1.830	
3,300.0	3,300.0	3,300.0	3,300.0	8.6	8.6	-178.95	-30.6	-0.6	30.6	13.4	17.25	1.774	
3,400.0	3,400.0	3,400.0	3,400.0	8.9	8.9	-178.95	-30.6	-0.6	30.6	12.8	17.78	1.721	
3,500.0	3,500.0	3,500.0	3,500.0	9.2	9.2	-178.95	-30.6	-0.6	30.6	12.3	18.32	1.671	
3,600.0	3,600.0	3,600.0	3,600.0	9.4	9.4	-178.95	-30.6	-0.6	30.6	11.8	18.85	1.624	
3,700.0	3,700.0	3,700.0	3,700.0	9.7	9.7	-178.95	-30.6	-0.6	30.6	11.2	19.38	1.580	
3,800.0	3,800.0	3,800.0	3,800.0	10.0	10.0	-178.95	-30.6	-0.6	30.6	10.7	19.91	1.538	
3,900.0	3,900.0	3,900.0	3,900.0	10.2	10.2	-178.95	-30.6	-0.6	30.6	10.2	20.44	1.498 Level 3	
4,000.0	4,000.0	4,000.0	4,000.0	10.5	10.5	-178.95	-30.6	-0.6	30.6	9.6	20.97	1.460 Level 3	
4,100.0	4,100.0	4,100.0	4,100.0	10.8	10.8	-178.95	-30.6	-0.6	30.6	9.1	21.50	1.424 Level 3	
4,200.0	4,200.0	4,200.0	4,200.0	11.0	11.0	-178.95	-30.6	-0.6	30.6	8.6	22.03	1.389 Level 3	
4,300.0	4,300.0	4,300.0	4,300.0	11.3	11.3	-178.95	-30.6	-0.6	30.6	8.0	22.56	1.357 Level 3	
4,400.0	4,400.0	4,400.0	4,400.0	11.5	11.5	-178.95	-30.6	-0.6	30.6	7.5	23.09	1.325 Level 3	
4,500.0	4,500.0	4,500.0	4,500.0	11.8	11.8	-178.95	-30.6	-0.6	30.6	7.0	23.62	1.296 Level 3	
4,600.0	4,600.0	4,600.0	4,600.0	12.1	12.1	-178.95	-30.6	-0.6	30.6	6.5	24.16	1.267 Level 3	
4,700.0	4,700.0	4,700.0	4,700.0	12.3	12.3	-178.95	-30.6	-0.6	30.6	5.9	24.69	1.240 Level 2	
4,800.0	4,800.0	4,800.0	4,800.0	12.6	12.6	-178.95	-30.6	-0.6	30.6	5.4	25.22	1.214 Level 2	
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	-178.95	-30.6	-0.6	30.6	4.9	25.75	1.189 Level 2	
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	-178.95	-30.6	-0.6	30.6	4.3	26.28	1.165 Level 2	
5,100.0	5,100.0	5,100.0	5,100.0	13.4	13.4	-178.95	-30.6	-0.6	30.6	3.8	26.81	1.142 Level 2	



<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-379HN
<b>Project:</b>	Sec.12-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Reference Site:</b>	Postle East Pad Sec.12-T3N-R68W	<b>MD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-379HN	<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 #1 (10-23-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7215-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		
5,200.0	5,200.0	5,200.0	5,200.0	13.7	13.7	-178.95	-30.6	-0.6	30.6	3.3	27.34	1.120	Level 2	
5,300.0	5,300.0	5,300.0	5,300.0	13.9	13.9	-178.95	-30.6	-0.6	30.6	2.7	27.87	1.098	Level 2	
5,400.0	5,400.0	5,400.0	5,400.0	14.2	14.2	-178.95	-30.6	-0.6	30.6	2.2	28.40	1.078	Level 2	
5,500.0	5,500.0	5,500.0	5,500.0	14.5	14.5	-178.95	-30.6	-0.6	30.6	1.7	28.93	1.058	Level 2	
5,600.0	5,600.0	5,600.0	5,600.0	14.7	14.7	-178.95	-30.6	-0.6	30.6	1.1	29.46	1.039	Level 2, CC, ES, SF	
5,700.0	5,700.0	5,698.6	5,698.6	15.0	14.9	-175.76	-32.6	-2.4	32.8	2.9	29.86	1.097	Level 2	
5,800.0	5,800.0	5,796.6	5,796.2	15.3	14.9	-168.38	-38.7	-8.0	39.7	9.6	30.14	1.317	Level 3	
5,900.0	5,900.0	5,893.4	5,892.0	15.5	14.9	-160.70	-48.6	-17.0	52.1	21.7	30.42	1.713		
6,000.0	6,000.0	5,988.4	5,985.3	15.8	14.9	-154.69	-62.1	-29.4	70.2	39.5	30.70	2.288		
6,100.0	6,099.9	6,081.8	6,075.8	16.0	14.9	-61.60	-78.9	-44.8	92.0	61.1	30.88	2.978		
6,200.0	6,199.1	6,173.9	6,163.8	16.1	15.0	-62.28	-99.0	-63.1	114.9	84.0	30.96	3.713		
6,300.0	6,296.9	6,264.3	6,248.7	16.2	15.0	-64.66	-122.0	-84.1	139.3	108.3	31.02	4.490		
6,400.0	6,392.7	6,353.0	6,330.2	16.4	15.0	-67.78	-147.6	-107.6	165.6	134.4	31.11	5.321		
6,500.0	6,485.8	6,439.6	6,408.2	16.5	15.1	-71.12	-175.5	-133.1	194.3	163.0	31.25	6.216		
6,600.0	6,575.6	6,524.1	6,482.3	16.6	15.2	-74.35	-205.5	-160.5	225.9	194.4	31.44	7.185		
6,700.0	6,661.8	6,615.7	6,561.4	16.8	15.2	-78.68	-239.4	-191.5	259.3	227.6	31.75	8.168		
6,800.0	6,747.5	6,707.2	6,640.6	17.0	15.3	-82.99	-273.3	-222.6	294.2	262.1	32.09	9.165		
6,900.0	6,833.1	6,798.8	6,719.8	17.1	15.5	-86.40	-307.3	-253.6	330.2	297.8	32.42	10.186		
7,000.0	6,917.9	6,890.2	6,798.8	17.3	15.6	-87.51	-341.1	-284.6	367.1	334.4	32.71	11.222		
7,100.0	6,991.7	6,992.5	6,885.7	17.6	15.7	-87.51	-378.4	-323.4	403.9	370.9	33.04	12.225		
7,200.0	7,048.5	7,120.3	6,980.1	18.7	16.0	-88.40	-418.8	-398.8	435.9	402.4	33.51	13.007		
7,300.0	7,085.3	7,269.5	7,059.7	18.8	17.3	-89.36	-453.0	-519.3	459.0	424.9	34.13	13.449		
7,400.0	7,100.4	7,436.3	7,099.6	18.9	17.5	-89.96	-470.2	-679.4	469.3	433.6	35.68	13.152		
7,500.0	7,100.7	7,550.2	7,100.7	19.7	18.4	-90.00	-470.7	-793.3	469.6	431.5	38.02	12.349		
7,600.0	7,100.7	7,650.2	7,100.7	21.0	19.9	-90.00	-470.8	-893.3	469.5	428.7	40.86	11.493		
7,700.0	7,100.7	7,750.2	7,100.7	22.6	21.6	-90.00	-470.8	-993.3	469.5	425.3	44.22	10.618		
7,800.0	7,100.7	7,850.2	7,100.7	24.4	23.6	-90.00	-470.9	-1,093.3	469.5	421.5	48.00	9.780		
7,900.0	7,100.7	7,950.2	7,100.7	26.4	25.7	-90.00	-470.9	-1,193.3	469.5	417.3	52.12	9.007		
8,000.0	7,100.7	8,050.2	7,100.7	28.6	27.9	-90.00	-471.0	-1,293.3	469.4	412.9	56.49	8.309		
8,100.0	7,100.7	8,150.2	7,100.7	30.8	30.3	-90.00	-471.0	-1,393.3	469.4	408.3	61.07	7.686		
8,200.0	7,100.7	8,250.2	7,100.7	33.1	32.7	-90.00	-471.1	-1,493.3	469.4	403.6	65.81	7.133		
8,300.0	7,100.7	8,350.2	7,100.7	35.5	35.1	-90.00	-471.1	-1,593.3	469.4	398.7	70.67	6.641		
8,400.0	7,100.7	8,450.2	7,100.7	38.0	37.7	-90.00	-471.2	-1,693.3	469.3	393.7	75.64	6.205		
8,500.0	7,100.7	8,550.2	7,100.7	40.5	40.2	-90.00	-471.3	-1,793.3	469.3	388.6	80.69	5.816		
8,600.0	7,100.7	8,650.2	7,100.7	43.0	42.8	-90.00	-471.3	-1,893.3	469.3	383.5	85.82	5.468		
8,700.0	7,100.7	8,750.2	7,100.7	45.6	45.4	-90.00	-471.4	-1,993.3	469.3	378.3	91.00	5.157		
8,800.0	7,100.7	8,850.2	7,100.7	48.2	48.0	-90.00	-471.4	-2,093.3	469.2	373.0	96.22	4.876		
8,900.0	7,100.7	8,950.2	7,100.7	50.8	50.7	-90.00	-471.5	-2,193.3	469.2	367.7	101.49	4.623		
9,000.0	7,100.7	9,050.2	7,100.7	53.4	53.4	-90.00	-471.5	-2,293.3	469.2	362.4	106.80	4.393		
9,100.0	7,100.7	9,150.2	7,100.7	56.1	56.0	-90.00	-471.6	-2,393.3	469.2	357.0	112.13	4.184		
9,200.0	7,100.7	9,250.2	7,100.7	58.8	58.7	-90.00	-471.7	-2,493.3	469.1	351.6	117.49	3.993		
9,300.0	7,100.7	9,350.2	7,100.7	61.4	61.4	-90.00	-471.7	-2,593.3	469.1	346.2	122.87	3.818		
9,400.0	7,100.7	9,450.2	7,100.7	64.1	64.1	-90.00	-471.8	-2,693.3	469.1	340.8	128.28	3.657		
9,500.0	7,100.7	9,550.2	7,100.7	66.8	66.9	-90.00	-471.8	-2,793.3	469.1	335.4	133.69	3.508		
9,600.0	7,100.7	9,650.2	7,100.7	69.5	69.6	-90.00	-471.9	-2,893.3	469.0	329.9	139.13	3.371		
9,700.0	7,100.7	9,750.2	7,100.7	72.3	72.3	-90.00	-471.9	-2,993.3	469.0	324.4	144.58	3.244		
9,800.0	7,100.7	9,850.2	7,100.7	75.0	75.1	-90.00	-472.0	-3,093.3	469.0	318.9	150.04	3.126		
9,900.0	7,100.7	9,950.2	7,100.7	77.7	77.8	-90.00	-472.0	-3,193.3	469.0	313.5	155.51	3.016		
10,000.0	7,100.7	10,050.2	7,100.7	80.4	80.5	-90.00	-472.1	-3,293.3	468.9	307.9	160.99	2.913		
10,100.0	7,100.7	10,150.2	7,100.7	83.2	83.3	-90.00	-472.2	-3,393.3	468.9	302.4	166.48	2.817		
10,200.0	7,100.7	10,250.2	7,100.7	85.9	86.1	-90.00	-472.2	-3,493.3	468.9	296.9	171.97	2.726		
10,300.0	7,100.7	10,350.2	7,100.7	88.7	88.8	-90.00	-472.3	-3,593.3	468.9	291.4	177.48	2.642		

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

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-379HN
<b>Project:</b>	Sec.12-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Reference Site:</b>	Postle East Pad Sec.12-T3N-R68W	<b>MD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-379HN	<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 #1 (10-23-13)	<b>Offset TVD Reference:</b>	Offset Datum

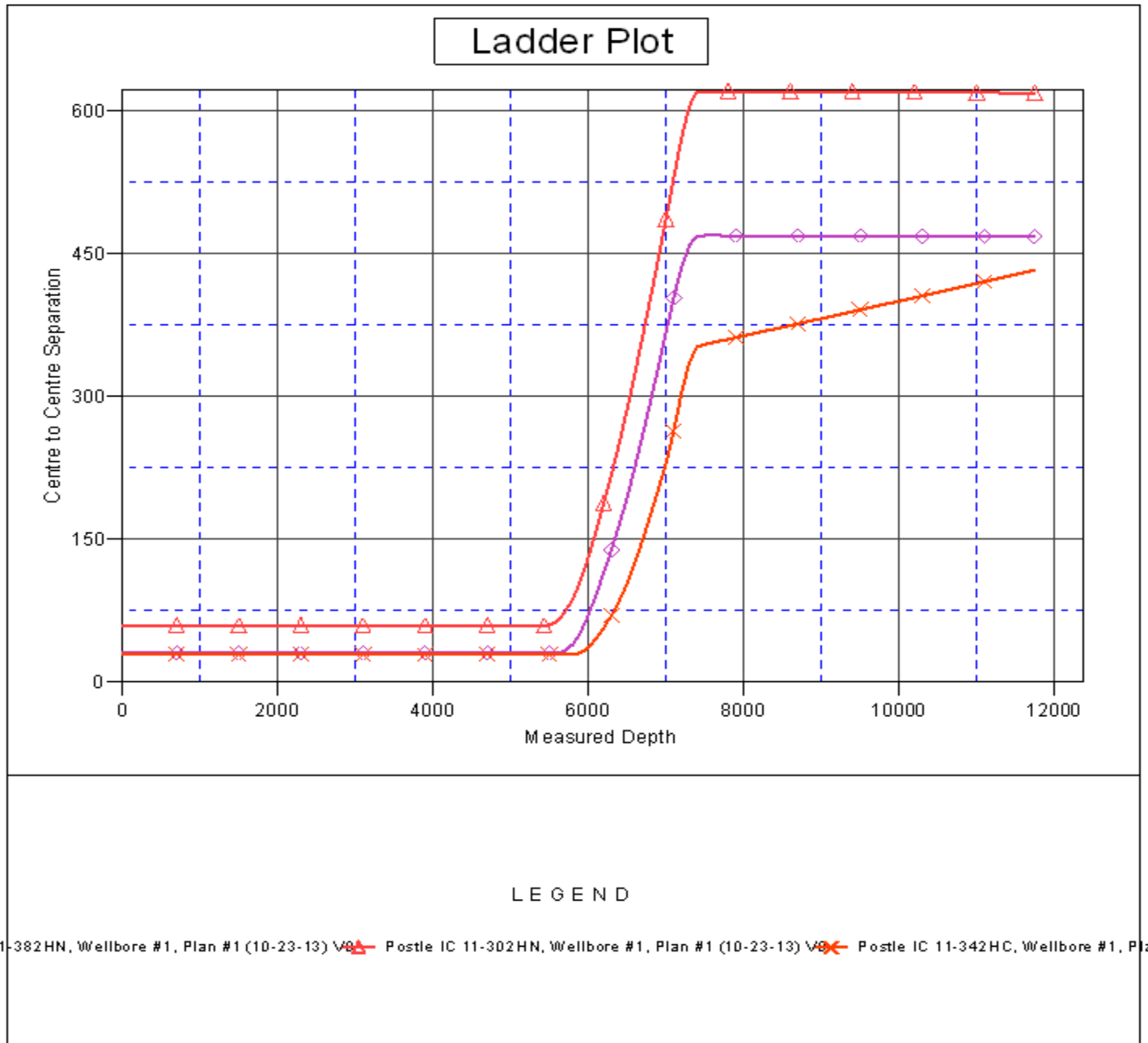
<b>Offset Design</b> Postle East Pad Sec.12-T3N-R68W - Postle IC 11-382HN - Wellbore #1 - Plan #1 (10-23-13)												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7215-MWD												<b>Offset Well Error:</b>	0.0 ft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (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
10,400.0	7,100.7	10,450.2	7,100.7	91.4	91.6	-90.00	-472.3	-3,693.3	468.8	285.8	182.99	2.562	
10,500.0	7,100.7	10,550.2	7,100.7	94.2	94.3	-90.00	-472.4	-3,793.3	468.8	280.3	188.50	2.487	
10,600.0	7,100.7	10,650.2	7,100.7	96.9	97.1	-90.00	-472.4	-3,893.3	468.8	274.8	194.03	2.416	
10,700.0	7,100.7	10,750.2	7,100.7	99.7	99.9	-90.00	-472.5	-3,993.3	468.8	269.2	199.55	2.349	
10,800.0	7,100.7	10,850.2	7,100.7	102.5	102.6	-90.00	-472.5	-4,093.3	468.7	263.6	205.08	2.286	
10,900.0	7,100.7	10,950.2	7,100.7	105.2	105.4	-90.00	-472.6	-4,193.3	468.7	258.1	210.62	2.225	
11,000.0	7,100.7	11,050.2	7,100.7	108.0	108.2	-90.00	-472.7	-4,293.3	468.7	252.5	216.16	2.168	
11,100.0	7,100.7	11,150.2	7,100.7	110.8	111.0	-90.00	-472.7	-4,393.3	468.7	247.0	221.70	2.114	
11,200.0	7,100.7	11,250.2	7,100.7	113.5	113.7	-90.00	-472.8	-4,493.3	468.6	241.4	227.25	2.062	
11,300.0	7,100.7	11,350.2	7,100.7	116.3	116.5	-90.00	-472.8	-4,593.3	468.6	235.8	232.80	2.013	
11,400.0	7,100.7	11,450.2	7,100.7	119.1	119.3	-90.00	-472.9	-4,693.3	468.6	230.2	238.35	1.966	
11,500.0	7,100.7	11,550.2	7,100.7	121.8	122.1	-90.00	-472.9	-4,793.3	468.6	224.7	243.90	1.921	
11,600.0	7,100.7	11,650.2	7,100.7	124.6	124.8	-90.00	-473.0	-4,893.3	468.5	219.1	249.46	1.878	
11,700.0	7,100.7	11,750.2	7,100.7	127.4	127.6	-90.00	-473.0	-4,993.3	468.5	213.5	255.02	1.837	
11,736.9	7,100.7	11,787.1	7,100.7	128.4	128.7	-90.00	-473.1	-5,030.2	468.5	211.4	257.07	1.822	
11,746.6	7,100.7	11,794.9	7,100.7	128.7	128.9	-90.00	-473.1	-5,038.0	468.5	210.9	257.56	1.819	



<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-379HN
<b>Project:</b>	Sec.12-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Reference Site:</b>	Postle East Pad Sec.12-T3N-R68W	<b>MD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-379HN	<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 #1 (10-23-13)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4941.6ft (RKB - 16.5')  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: Postle IC 11-379HN  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.35°



<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-379HN
<b>Project:</b>	Sec.12-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Reference Site:</b>	Postle East Pad Sec.12-T3N-R68W	<b>MD Reference:</b>	WELL @ 4941.6ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-379HN	<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 #1 (10-23-13)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4941.6ft (RKB - 16.5')  
Offset Depths are relative to Offset Datum  
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Coordinates are relative to: Postle IC 11-379HN  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.35°

