

# Great Western

Well Name: **Postle IC 11-042HC**  
 Surface Location: Postle West Pad Sec.11-T3N-R68W  
 North American Datum 1983, US State Plane 1983, Colorado Northern Zone  
 Ground Elevation: 4976.9  
 Slot  
 +N/-S +E/-W Northing Easting Longitude  
 0.0 0.0 1332148.27 3145665.64 40.243969 -104.978181  
 RKB - 16.5' WELL @ 4993.4ft (RKB - 16.5')

## WELLBORE TARGET DETAILS

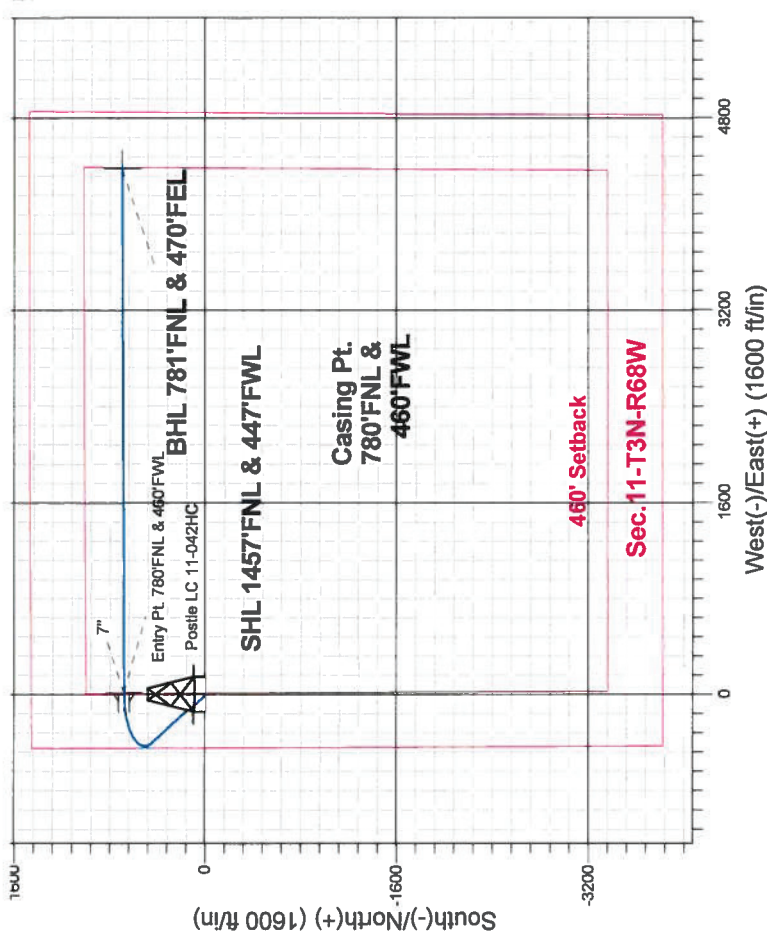
Name	TVD	+N/-S	+E/-W	Shape
SHL 1457'FNL & 447'FWL	1.0	0.0	0.0	Point
BHL 781'FNL & 470'FEL	7321.4	697.7	4379.1	Point
Entry Pt. 780'FNL & 460'FWL	7321.4	677.2	9.5	Point

Postle West Pad Sec.11-T3N-R68W  
 Postle IC 11-042HC  
 Plan #1 (12-10-13)  
 9:10, December 12 2013

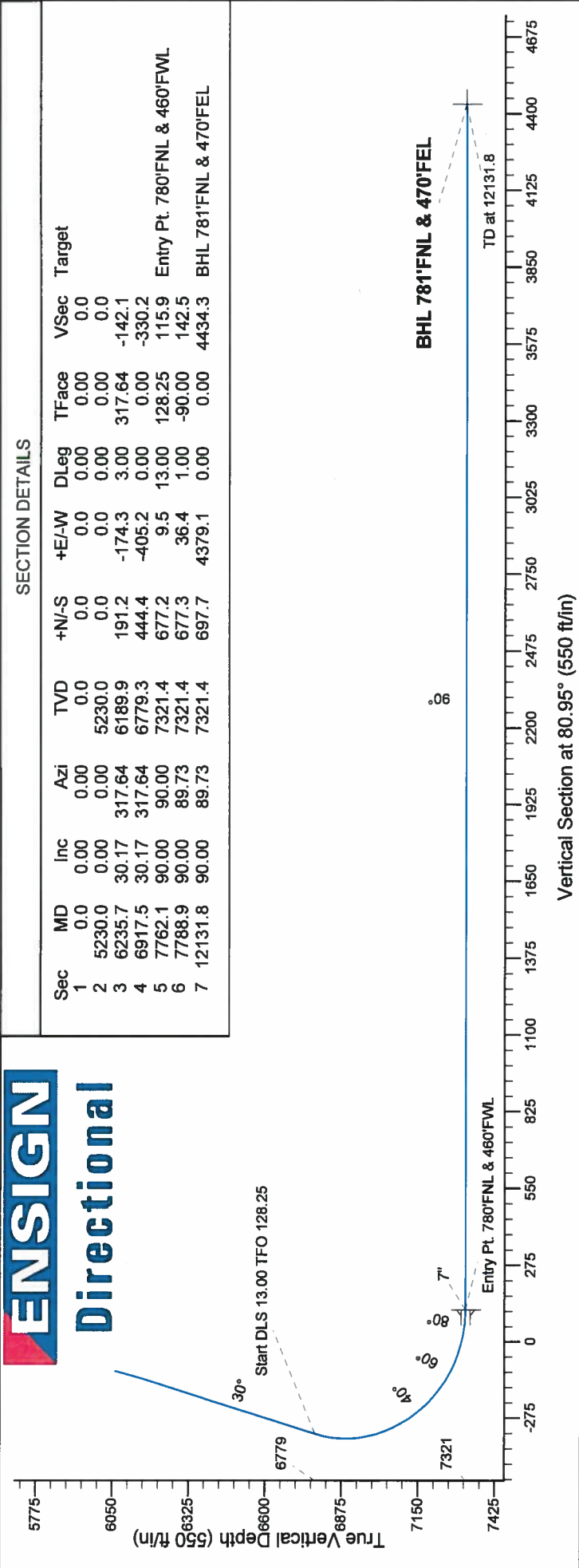
Azimuths to True North  
 Magnetic North: 8.63°  
 Strength: 52763.4sn T  
 Dip Angle: 66.80°  
 Date: 12/10/2013  
 Model: IGRF2010

## ANNOTATIONS

TVD MD Azimuth  
 5230.0 5230.0 KOP - Start Build 3.00  
 6779.3 6917.5 Start DLS 13.00 TFO 128.25  
 7321.4 12131.8 TD at 12131.8



# ENSIGN Directional



## 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	5230.0	0.00	0.00	5230.0	0.0	0.0	0.00	0.00	0.0	
3	6235.7	30.17	317.64	6189.9	191.2	-174.3	3.00	317.64	-142.1	
4	6917.5	30.17	317.64	6779.3	444.4	-405.2	0.00	0.00	-330.2	Entry Pt. 780'FNL & 460'FWL
5	7762.1	90.00	90.00	7321.4	677.2	9.5	13.00	128.25	115.9	
6	7788.9	90.00	89.73	7321.4	677.3	36.4	1.00	-90.00	142.5	
7	12131.8	90.00	89.73	7321.4	697.7	4379.1	0.00	0.00	4434.3	BHL 781'FNL & 470'FEL

Vertical Section at 80.95° (550 ft/m)



## **Directional**

### **Great Western**

**SEC.11-T3N-R68W**

**Postle West Pad Sec.11-T3N-R68W**

**Postle IC 11-042HC**

**Wellbore #1**

**Plan: Plan #1 (12-10-13)**

## **Standard Planning Report**

**12 December, 2013**

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-042HC
<b>Company:</b>	Great Western	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Project:</b>	SEC.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Postle IC 11-042HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-10-13)		

<b>Project</b>	SEC.11-T3N-R68W, Weld County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

<b>Site</b>	Postle West Pad Sec.11-T3N-R68W				
<b>Site Position:</b>		<b>Northing:</b>	1,332,143.74 ft	<b>Latitude:</b>	40.243958
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,145,575.78 ft	<b>Longitude:</b>	-104.978503
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.34 °

<b>Well</b>	Postle IC 11-042HC					
<b>Well Position</b>	<b>+N/-S</b>	4.0 ft	<b>Northing:</b>	1,332,148.27 ft	<b>Latitude:</b>	40.243969
	<b>+E/-W</b>	89.9 ft	<b>Easting:</b>	3,145,665.64 ft	<b>Longitude:</b>	-104.978181
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	4,976.9 ft

<b>Wellbore</b>	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/10/2013	8.63	66.80	52,763

<b>Design</b>	Plan #1 (12-10-13)				
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<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	80.95

<b>Plan Sections</b>										
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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	
5,230.0	0.00	0.00	5,230.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,235.7	30.17	317.64	6,189.9	191.2	-174.3	3.00	3.00	0.00	317.64	
6,917.5	30.17	317.64	6,779.3	444.4	-405.2	0.00	0.00	0.00	0.00	
7,762.1	90.00	90.00	7,321.4	677.2	9.5	13.00	7.08	15.67	128.25	Entry Pt. 780°FNL 8
7,788.9	90.00	89.73	7,321.4	677.3	36.4	1.00	0.00	-1.00	-90.00	
12,131.8	90.00	89.73	7,321.4	697.7	4,379.1	0.00	0.00	0.00	0.00	BHL 781°FNL & 47C

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-042HC
<b>Company:</b>	Great Western	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Project:</b>	SEC.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Postle IC 11-042HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-10-13)		

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)	
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 1457'FNL &amp; 447'FWL</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	
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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	

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<b>Project:</b>	SEC.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Postle IC 11-042HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-10-13)		

#### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Bulld 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
5,230.0	0.00	0.00	5,230.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP - Start Build 3.00</b>									
5,300.0	2.10	317.64	5,300.0	0.9	-0.9	-0.7	3.00	3.00	0.00
5,400.0	5.10	317.64	5,399.8	5.6	-5.1	-4.2	3.00	3.00	0.00
5,500.0	8.10	317.64	5,499.1	14.1	-12.8	-10.5	3.00	3.00	0.00
5,600.0	11.10	317.64	5,597.7	26.4	-24.1	-19.6	3.00	3.00	0.00
5,700.0	14.10	317.64	5,695.3	42.5	-38.8	-31.6	3.00	3.00	0.00
5,800.0	17.10	317.64	5,791.6	62.4	-56.9	-46.4	3.00	3.00	0.00
5,900.0	20.10	317.64	5,886.3	86.0	-78.4	-63.9	3.00	3.00	0.00
6,000.0	23.10	317.64	5,979.3	113.2	-103.2	-84.1	3.00	3.00	0.00
6,100.0	26.10	317.64	6,070.2	143.9	-131.2	-106.9	3.00	3.00	0.00
6,200.0	29.10	317.64	6,158.8	178.1	-162.4	-132.4	3.00	3.00	0.00
6,235.7	30.17	317.64	6,189.9	191.2	-174.3	-142.1	3.00	3.00	0.00
6,300.0	30.17	317.64	6,245.5	215.1	-196.1	-159.8	0.00	0.00	0.00
6,400.0	30.17	317.64	6,331.9	252.2	-230.0	-187.4	0.00	0.00	0.00
6,500.0	30.17	317.64	6,418.4	289.3	-263.8	-215.0	0.00	0.00	0.00
6,600.0	30.17	317.64	6,504.8	326.5	-297.7	-242.6	0.00	0.00	0.00
6,700.0	30.17	317.64	6,591.3	363.6	-331.6	-270.2	0.00	0.00	0.00
6,800.0	30.17	317.64	6,677.7	400.7	-365.4	-297.8	0.00	0.00	0.00
6,900.0	30.17	317.64	6,764.2	437.9	-399.3	-325.4	0.00	0.00	0.00
6,917.5	30.17	317.64	6,779.3	444.4	-405.2	-330.2	0.00	0.00	0.00
<b>Start DLS 13.00 TFO 128.25</b>									
7,000.0	24.86	337.98	6,852.6	475.9	-425.7	-345.6	13.00	-6.44	24.65
7,100.0	23.56	9.87	6,944.2	515.2	-430.2	-343.8	13.00	-1.30	31.90
7,200.0	28.48	37.64	7,034.4	553.9	-412.1	-319.9	13.00	4.92	27.77
7,300.0	37.22	55.57	7,118.5	590.1	-372.5	-275.0	13.00	8.75	17.93
7,400.0	47.72	67.01	7,192.3	621.8	-313.2	-211.5	13.00	10.50	11.44
7,500.0	59.02	75.05	7,251.9	647.4	-237.4	-132.6	13.00	11.30	8.05
7,600.0	70.71	81.35	7,294.3	665.6	-149.0	-42.4	13.00	11.69	6.30
7,700.0	82.59	86.80	7,317.4	675.5	-52.4	54.6	13.00	11.88	5.44
7,762.1	90.00	90.00	7,321.4	677.2	9.5	115.9	13.00	11.93	5.16
<b>7" - Entry Pt. 780'FNL &amp; 460'FWL</b>									
7,788.9	90.00	89.73	7,321.4	677.3	36.4	142.5	1.00	0.01	-1.00
7,800.0	90.00	89.73	7,321.4	677.4	47.4	153.4	0.00	0.00	0.00
7,900.0	90.00	89.73	7,321.4	677.8	147.4	252.2	0.00	0.00	0.00
8,000.0	90.00	89.73	7,321.4	678.3	247.4	351.0	0.00	0.00	0.00
8,100.0	90.00	89.73	7,321.4	678.8	347.4	449.9	0.00	0.00	0.00
8,200.0	90.00	89.73	7,321.4	679.2	447.4	548.7	0.00	0.00	0.00
8,300.0	90.00	89.73	7,321.4	679.7	547.4	647.5	0.00	0.00	0.00
8,400.0	90.00	89.73	7,321.4	680.2	647.4	746.4	0.00	0.00	0.00
8,500.0	90.00	89.73	7,321.4	680.6	747.4	845.2	0.00	0.00	0.00
8,600.0	90.00	89.73	7,321.4	681.1	847.4	944.0	0.00	0.00	0.00
8,700.0	90.00	89.73	7,321.4	681.6	947.4	1,042.8	0.00	0.00	0.00
8,800.0	90.00	89.73	7,321.4	682.0	1,047.4	1,141.7	0.00	0.00	0.00
8,900.0	90.00	89.73	7,321.4	682.5	1,147.4	1,240.5	0.00	0.00	0.00
9,000.0	90.00	89.73	7,321.4	683.0	1,247.4	1,339.3	0.00	0.00	0.00
9,100.0	90.00	89.73	7,321.4	683.5	1,347.4	1,438.1	0.00	0.00	0.00
9,200.0	90.00	89.73	7,321.4	683.9	1,447.4	1,537.0	0.00	0.00	0.00
9,300.0	90.00	89.73	7,321.4	684.4	1,547.4	1,635.8	0.00	0.00	0.00
9,400.0	90.00	89.73	7,321.4	684.9	1,647.4	1,734.6	0.00	0.00	0.00
9,500.0	90.00	89.73	7,321.4	685.3	1,747.4	1,833.5	0.00	0.00	0.00
9,600.0	90.00	89.73	7,321.4	685.8	1,847.4	1,932.3	0.00	0.00	0.00

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<b>Company:</b>	Great Western	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Project:</b>	SEC.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Postle IC 11-042HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-10-13)		

**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)
9,700.0	90.00	89.73	7,321.4	686.3	1,947.4	2,031.1	0.00	0.00	0.00
9,800.0	90.00	89.73	7,321.4	686.7	2,047.4	2,129.9	0.00	0.00	0.00
9,900.0	90.00	89.73	7,321.4	687.2	2,147.4	2,228.8	0.00	0.00	0.00
10,000.0	90.00	89.73	7,321.4	687.7	2,247.4	2,327.6	0.00	0.00	0.00
10,100.0	90.00	89.73	7,321.4	688.1	2,347.4	2,426.4	0.00	0.00	0.00
10,200.0	90.00	89.73	7,321.4	688.6	2,447.4	2,525.2	0.00	0.00	0.00
10,300.0	90.00	89.73	7,321.4	689.1	2,547.4	2,624.1	0.00	0.00	0.00
10,400.0	90.00	89.73	7,321.4	689.6	2,647.4	2,722.9	0.00	0.00	0.00
10,500.0	90.00	89.73	7,321.4	690.0	2,747.4	2,821.7	0.00	0.00	0.00
10,600.0	90.00	89.73	7,321.4	690.5	2,847.4	2,920.6	0.00	0.00	0.00
10,700.0	90.00	89.73	7,321.4	691.0	2,947.4	3,019.4	0.00	0.00	0.00
10,800.0	90.00	89.73	7,321.4	691.4	3,047.4	3,118.2	0.00	0.00	0.00
10,900.0	90.00	89.73	7,321.4	691.9	3,147.4	3,217.0	0.00	0.00	0.00
11,000.0	90.00	89.73	7,321.4	692.4	3,247.4	3,315.9	0.00	0.00	0.00
11,100.0	90.00	89.73	7,321.4	692.8	3,347.4	3,414.7	0.00	0.00	0.00
11,200.0	90.00	89.73	7,321.4	693.3	3,447.4	3,513.5	0.00	0.00	0.00
11,300.0	90.00	89.73	7,321.4	693.8	3,547.4	3,612.3	0.00	0.00	0.00
11,400.0	90.00	89.73	7,321.4	694.2	3,647.4	3,711.2	0.00	0.00	0.00
11,500.0	90.00	89.73	7,321.4	694.7	3,747.4	3,810.0	0.00	0.00	0.00
11,600.0	90.00	89.73	7,321.4	695.2	3,847.4	3,908.8	0.00	0.00	0.00
11,700.0	90.00	89.73	7,321.4	695.6	3,947.4	4,007.7	0.00	0.00	0.00
11,800.0	90.00	89.73	7,321.4	696.1	4,047.4	4,106.5	0.00	0.00	0.00
11,900.0	90.00	89.73	7,321.4	696.6	4,147.4	4,205.3	0.00	0.00	0.00
12,000.0	90.00	89.73	7,321.4	697.1	4,247.4	4,304.1	0.00	0.00	0.00
12,100.0	90.00	89.73	7,321.4	697.5	4,347.4	4,403.0	0.00	0.00	0.00
12,131.8	90.00	89.73	7,321.4	697.7	4,379.1	4,434.3	0.00	0.00	0.00

BHL 781'FNL & 470'FEL

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,762.1	7,321.4	7"	7	7-1/2

**Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,230.0	5,230.0	0.0	0.0	KOP - Start Build 3.00
6,917.5	6,779.3	444.4	-405.2	Start DLS 13.00 TFO 128.25
12,131.8	7,321.4	697.7	4,379.2	TD at 12131.8



# Directional

## Great Western

SEC.11-T3N-R68W

Postle West Pad Sec.11-T3N-R68W

Postle IC 11-042HC

Wellbore #1

Plan #1 (12-10-13)

## Anticollision Report

12 December, 2013

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1 (12-10-13)		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	Date	12/11/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	12,131.8	Plan #1 (12-10-13) (Wellbore #1)	MWD	MWD - Standard

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Postle West Pad Sec.11-T3N-R68W						
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	0.0	2.6	90.0	90.0	10,000.000	CC
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	500.0	502.3	90.2	88.4	48.774	ES
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	12,131.8	11,715.0	370.0	152.9	1.704	SF
Postle IC 11-002HN - Wellbore #1 - Plan #1 (12-10-13)	4,000.0	4,000.0	59.5	41.8	3.353	CC, ES
Postle IC 11-002HN - Wellbore #1 - Plan #1 (12-10-13)	12,131.8	12,152.0	798.4	539.1	3.078	SF
Postle IC 11-039HN - Wellbore #1 - Plan #1 (12-10-13)	4,700.0	4,700.0	30.2	9.3	1.443	Level 3, CC, ES, SF
Postle IC 11-122HN - Wellbore #1 - Plan #1 (12-10-13)	5,200.0	5,200.0	30.4	7.3	1.315	Level 3, CC, ES, SF

Offset Design													Offset Site Error:	0.0ft
Survey Program: 229-MWD													Offset Well Error:	0.0ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	2.6	2.6	0.0	0.0	-92.56	-4.0	-89.9	90.0	90.0	0.00	N/A	CC	
100.0	100.0	102.5	102.5	0.1	0.1	-92.60	-4.1	-89.9	90.0	89.8	0.23	394.983		
200.0	200.0	202.5	202.5	0.3	0.2	-92.74	-4.3	-90.0	90.1	89.5	0.57	159.457		
300.0	300.0	302.6	302.6	0.6	0.4	-92.94	-4.6	-90.1	90.2	89.2	0.97	92.569		
400.0	400.0	402.7	402.6	0.8	0.6	-93.19	-5.0	-90.0	90.1	88.7	1.41	63.857		
437.5	437.5	440.1	440.1	0.9	0.7	-93.34	-5.3	-89.9	90.1	88.5	1.58	57.176		
500.0	500.0	502.3	502.3	1.0	0.8	-93.62	-5.7	-90.0	90.2	88.4	1.85	48.774	ES	
600.0	600.0	601.8	601.8	1.2	1.1	-94.06	-6.4	-90.6	90.8	88.5	2.29	39.711		
700.0	700.0	701.7	701.7	1.5	1.3	-94.46	-7.1	-91.5	91.8	89.1	2.72	33.801		
800.0	800.0	801.7	801.7	1.7	1.5	-94.75	-7.7	-92.5	92.8	89.7	3.14	29.518		
900.0	900.0	901.2	901.2	1.9	1.7	-94.96	-8.1	-93.6	94.0	90.4	3.58	26.288		
1,000.0	1,000.0	1,000.5	1,000.5	2.1	1.9	-95.22	-8.7	-95.5	95.9	91.9	4.02	23.866		
1,100.0	1,100.0	1,100.1	1,100.0	2.4	2.1	-95.43	-9.3	-97.8	98.3	93.9	4.46	22.054		
1,200.0	1,200.0	1,200.3	1,200.2	2.6	2.3	-95.26	-9.2	-100.5	101.0	96.1	4.89	20.637		
1,300.0	1,300.0	1,300.7	1,300.6	2.8	2.5	-94.95	-8.9	-102.7	103.1	97.8	5.32	19.387		
1,400.0	1,400.0	1,400.9	1,400.7	3.0	2.7	-94.63	-8.5	-104.6	105.0	99.2	5.75	18.264		
1,500.0	1,500.0	1,501.8	1,501.7	3.3	2.9	-94.06	-7.5	-106.1	106.4	100.2	6.18	17.217		
1,600.0	1,600.0	1,602.1	1,601.9	3.5	3.1	-93.20	-6.0	-106.9	107.1	100.5	6.61	16.195		
1,700.0	1,700.0	1,702.3	1,702.1	3.7	3.3	-92.68	-5.0	-107.5	107.7	100.6	7.04	15.284		
1,800.0	1,800.0	1,801.8	1,801.6	3.9	3.6	-92.30	-4.4	-108.3	108.4	100.9	7.48	14.490		
1,900.0	1,900.0	1,901.5	1,901.3	4.2	3.8	-91.85	-3.5	-109.4	109.4	101.5	7.91	13.829		

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 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-4HN - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0ft
Survey Program: 229-MWD													Offset Well Error:	0.0ft
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		
2,000.0	2,000.0	2,002.4	2,002.2	4.4	4.0	-91.51	-2.9	-110.2	110.2	101.8	8.35	13.198		
2,100.0	2,100.0	2,102.3	2,102.1	4.6	4.2	-91.03	-2.0	-110.6	110.6	101.8	8.78	12.593		
2,200.0	2,200.0	2,201.8	2,201.6	4.8	4.4	-90.48	-0.9	-111.3	111.3	102.1	9.21	12.079		
2,300.0	2,300.0	2,301.7	2,301.4	5.1	4.6	-90.10	-0.2	-112.2	112.2	102.6	9.65	11.628		
2,400.0	2,400.0	2,400.7	2,400.5	5.3	4.8	-90.21	-0.4	-113.8	113.8	103.7	10.09	11.287		
2,500.0	2,500.0	2,501.5	2,501.2	5.5	5.0	-90.53	-1.1	-115.4	115.4	104.9	10.52	10.967		
2,600.0	2,600.0	2,602.1	2,601.9	5.7	5.2	-90.78	-1.6	-116.3	116.3	105.3	10.95	10.614		
2,700.0	2,700.0	2,702.3	2,702.0	6.0	5.4	-91.04	-2.1	-116.8	116.8	105.4	11.39	10.255		
2,800.0	2,800.0	2,802.2	2,801.9	6.2	5.7	-91.39	-2.8	-117.2	117.3	105.5	11.82	9.919		
2,900.0	2,900.0	2,901.9	2,901.6	6.4	5.9	-91.79	-3.7	-117.9	118.0	105.7	12.26	9.620		
3,000.0	3,000.0	3,001.3	3,001.0	6.6	6.1	-92.22	-4.6	-118.9	119.0	106.3	12.70	9.374		
3,100.0	3,100.0	3,100.7	3,100.4	6.9	6.3	-92.47	-5.2	-120.5	120.7	107.5	13.13	9.189		
3,200.0	3,200.0	3,200.3	3,200.0	7.1	6.5	-92.68	-5.7	-122.5	122.6	109.1	13.57	9.037		
3,300.0	3,300.0	3,299.4	3,299.0	7.3	6.7	-93.03	-6.6	-124.8	125.0	111.0	14.01	8.928		
3,400.0	3,400.0	3,398.7	3,398.3	7.5	6.9	-93.20	-7.2	-127.9	128.2	113.8	14.44	8.876		
3,500.0	3,500.0	3,496.8	3,496.3	7.8	7.1	-93.30	-7.6	-131.8	132.1	117.2	14.88	8.878		
3,600.0	3,600.0	3,596.1	3,595.5	8.0	7.4	-93.06	-7.3	-136.9	137.3	122.0	15.32	8.960		
3,700.0	3,700.0	3,695.4	3,694.6	8.2	7.6	-92.73	-6.8	-142.2	142.6	126.9	15.76	9.050		
3,800.0	3,800.0	3,793.5	3,792.5	8.4	7.8	-92.44	-6.3	-148.3	148.8	132.6	16.20	9.183		
3,900.0	3,900.0	3,891.8	3,890.6	8.7	8.0	-92.13	-5.8	-155.4	156.0	139.4	16.64	9.373		
4,000.0	4,000.0	3,991.4	3,989.8	8.9	8.3	-91.82	-5.2	-163.2	163.8	146.7	17.09	9.585		
4,100.0	4,100.0	4,092.7	4,090.9	9.1	8.5	-91.59	-4.8	-170.7	171.1	153.6	17.53	9.763		
4,200.0	4,200.0	4,191.9	4,189.8	9.3	8.7	-91.54	-4.8	-177.6	178.1	160.1	17.97	9.912		
4,300.0	4,300.0	4,290.0	4,287.7	9.6	8.9	-91.56	-5.0	-185.1	185.7	167.3	18.42	10.084		
4,400.0	4,400.0	4,388.7	4,386.0	9.8	9.2	-91.58	-5.3	-193.3	194.0	175.2	18.87	10.284		
4,500.0	4,500.0	4,488.1	4,485.1	10.0	9.4	-91.60	-5.6	-201.8	202.6	183.3	19.32	10.486		
4,600.0	4,600.0	4,586.1	4,582.6	10.2	9.7	-91.58	-5.8	-210.7	211.7	191.9	19.77	10.708		
4,700.0	4,700.0	4,685.3	4,681.4	10.5	9.9	-91.47	-5.6	-220.1	221.2	201.0	20.22	10.939		
4,800.0	4,800.0	4,785.0	4,780.6	10.7	10.1	-91.31	-5.2	-229.7	230.8	210.1	20.67	11.164		
4,900.0	4,900.0	4,685.0	4,680.2	10.9	10.4	-91.16	-4.8	-239.1	240.2	219.1	21.11	11.376		
5,000.0	5,000.0	4,985.3	4,980.1	11.1	10.6	-91.01	-4.4	-248.4	249.4	227.9	21.56	11.570		
5,100.0	5,100.0	5,086.0	5,080.3	11.4	10.8	-90.86	-3.9	-257.2	258.2	236.2	22.00	11.735		
5,200.0	5,200.0	5,186.3	5,180.3	11.6	11.1	-90.71	-3.3	-265.8	266.7	244.3	22.45	11.881		
5,300.0	5,300.0	5,287.5	5,281.2	11.8	11.3	-48.29	-2.7	-274.0	274.0	251.3	22.71	12.062		
5,400.0	5,399.8	5,389.2	5,382.6	12.0	11.6	-49.05	-2.0	-281.6	277.3	254.2	23.13	11.990		
5,500.0	5,499.1	5,491.6	5,484.7	12.2	11.8	-50.73	-1.3	-288.5	276.6	253.1	23.52	11.757		
5,600.0	5,597.7	5,591.5	5,584.5	12.5	12.0	-53.43	-1.0	-294.3	272.1	248.2	23.92	11.377		
5,700.0	5,695.3	5,689.9	5,682.7	12.7	12.2	-57.10	-0.5	-300.1	265.3	241.0	24.33	10.905		
5,800.0	5,791.6	5,790.7	5,783.3	13.0	12.5	-62.04	0.5	-305.7	256.6	231.8	24.80	10.344		
5,900.0	5,886.3	5,891.1	5,883.7	13.3	12.7	-68.33	2.5	-309.6	245.9	220.5	25.37	9.692		
6,000.0	5,979.3	5,992.6	5,985.1	13.6	12.9	-76.26	6.1	-311.8	234.5	208.4	26.06	9.000		
6,100.0	6,070.2	6,084.7	6,077.0	14.0	13.1	-84.76	11.4	-313.5	225.3	198.5	26.80	8.407		
6,200.0	6,158.8	6,187.3	6,178.8	14.5	13.3	-94.63	22.7	-317.1	220.0	192.4	27.60	7.970		
6,300.0	6,245.5	6,286.1	6,276.0	15.0	13.6	-103.94	39.7	-322.4	217.9	189.6	28.30	7.697		
6,400.0	6,331.9	6,405.3	6,390.9	15.6	13.9	-113.72	70.3	-330.0	215.1	186.2	28.90	7.442		
6,500.0	6,418.4	6,519.2	6,497.0	16.3	14.2	-123.87	111.7	-330.0	204.3	175.1	29.19	6.998		
6,600.0	6,504.8	6,606.7	6,578.1	17.0	14.4	-132.67	144.3	-328.4	197.8	168.6	29.23	6.766		
6,678.3	6,572.5	6,686.2	6,651.8	17.5	14.7	-140.04	174.1	-330.1	197.1	168.0	29.12	6.770		
6,700.0	6,591.3	6,706.4	6,670.4	17.7	14.7	-141.86	181.9	-330.6	197.2	168.1	29.08	6.780		
6,800.0	6,677.7	6,793.8	6,751.5	18.5	15.0	-150.07	214.4	-331.5	202.3	173.4	28.86	7.010		
6,900.0	6,764.2	6,869.4	6,821.2	19.2	15.3	-159.33	241.5	-321.4	218.2	189.7	28.45	7.670		
7,000.0	6,852.6	6,936.2	6,881.1	19.9	15.4	171.29	263.4	-301.5	247.5	218.7	28.81	8.591		

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 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-4HN - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0ft
Survey Program: 229-MWD													Offset Well Error:	0.0ft
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		
7,100.0	6,944.2	7,007.0	6,940.7	20.3	15.5	132.43	286.3	-271.0	279.0	248.9	30.00	9.297		
7,200.0	7,034.4	7,069.9	6,988.8	20.6	15.6	100.69	306.3	-236.0	307.7	276.8	30.90	9.959		
7,300.0	7,118.5	7,126.3	7,028.3	20.8	15.7	81.27	321.0	-198.6	333.6	302.5	31.02	10.754		
7,400.0	7,192.3	7,186.4	7,065.0	20.8	15.8	69.94	333.7	-152.8	354.3	323.8	30.57	11.593		
7,500.0	7,251.9	7,246.0	7,095.2	20.8	16.0	63.56	343.5	-102.4	368.7	338.7	30.00	12.288		
7,600.0	7,294.3	7,293.0	7,114.3	20.7	16.2	60.41	348.3	-59.7	376.8	346.9	29.68	12.609		
7,700.0	7,317.4	7,357.9	7,132.9	20.7	16.7	59.73	352.1	2.3	377.6	346.7	30.85	12.238		
7,800.0	7,321.4	7,429.2	7,141.4	20.9	17.4	60.45	355.4	72.9	371.0	338.3	32.66	11.357		
7,900.0	7,321.4	7,523.3	7,140.9	22.2	18.7	59.91	361.9	166.7	365.6	330.8	34.80	10.505		
8,000.0	7,321.4	7,624.1	7,136.9	23.9	20.3	58.74	370.2	267.1	361.0	323.7	37.26	9.688		
8,100.0	7,321.4	7,722.0	7,133.1	25.8	22.2	57.53	378.8	364.6	356.0	316.1	39.96	8.911		
8,200.0	7,321.4	7,810.7	7,131.2	27.9	24.0	56.89	383.7	453.1	352.9	310.0	42.94	8.219		
8,224.7	7,321.4	7,831.8	7,130.7	28.4	24.4	56.77	384.3	474.1	352.8	309.1	43.72	8.070		
8,300.0	7,321.4	7,906.5	7,128.3	30.0	26.1	56.37	385.5	548.8	353.4	307.1	46.28	7.635		
8,400.0	7,321.4	8,007.3	7,127.4	32.3	28.4	56.08	387.9	649.6	352.3	302.3	49.96	7.052		
8,405.5	7,321.4	8,012.0	7,127.4	32.4	28.5	56.07	387.9	654.3	352.3	302.1	50.15	7.024		
8,500.0	7,321.4	8,101.7	7,126.7	34.6	30.6	56.07	387.3	744.0	353.5	299.7	53.79	6.572		
8,600.0	7,321.4	8,202.0	7,127.8	37.0	33.0	56.40	385.8	844.3	354.6	296.5	58.06	6.107		
8,700.0	7,321.4	8,292.5	7,129.2	39.5	35.2	56.95	382.2	934.7	357.4	295.0	62.39	5.728		
8,800.0	7,321.4	8,401.0	7,128.3	42.0	37.9	57.07	379.8	1,043.1	360.1	293.2	66.92	5.381		
8,900.0	7,321.4	8,498.1	7,127.8	44.5	40.4	57.15	378.6	1,140.3	361.8	290.6	71.26	5.078		
9,000.0	7,321.4	8,596.5	7,127.9	47.1	43.0	57.43	375.9	1,238.6	364.4	288.6	75.83	4.806		
9,100.0	7,321.4	8,700.7	7,126.2	49.6	45.7	57.38	374.4	1,342.8	367.0	286.6	80.33	4.568		
9,200.0	7,321.4	8,803.9	7,123.9	52.2	48.4	57.04	375.4	1,446.0	367.8	283.2	84.59	4.348		
9,300.0	7,321.4	8,902.4	7,122.7	54.9	51.0	56.93	375.2	1,544.4	368.9	280.0	88.96	4.147		
9,400.0	7,321.4	9,013.4	7,123.0	57.5	54.0	56.88	376.8	1,655.4	367.9	274.2	93.68	3.927		
9,500.0	7,321.4	9,109.0	7,123.3	60.2	56.5	56.81	378.5	1,751.0	366.7	268.6	98.05	3.740		
9,600.0	7,321.4	9,209.8	7,123.5	62.8	59.2	56.79	379.5	1,851.7	366.1	263.5	102.60	3.568		
9,640.1	7,321.4	9,247.0	7,124.0	63.9	60.2	56.88	379.5	1,889.0	365.9	261.5	104.46	3.503		
9,700.0	7,321.4	9,300.1	7,124.5	65.5	61.7	57.01	378.9	1,942.1	366.5	259.3	107.20	3.419		
9,800.0	7,321.4	9,399.6	7,123.8	68.2	64.4	57.09	377.4	2,041.5	368.5	256.7	111.88	3.294		
9,900.0	7,321.4	9,496.4	7,123.9	70.9	67.0	57.31	375.3	2,138.3	370.6	254.0	116.69	3.176		
10,000.0	7,321.4	9,589.5	7,122.3	73.6	69.5	57.37	372.6	2,231.4	374.4	253.2	121.24	3.088		
10,100.0	7,321.4	9,698.9	7,119.4	76.3	72.5	57.23	370.2	2,340.7	378.1	252.2	125.93	3.003		
10,200.0	7,321.4	9,805.7	7,119.2	79.0	75.4	57.26	370.1	2,447.5	378.7	247.9	130.78	2.895		
10,300.0	7,321.4	9,901.2	7,117.9	81.8	78.1	57.12	370.2	2,543.0	379.7	244.6	135.15	2.809		
10,400.0	7,321.4	10,011.4	7,117.7	84.5	81.1	57.12	370.5	2,653.1	380.0	239.9	140.05	2.713		
10,500.0	7,321.4	10,109.8	7,119.3	87.2	83.8	57.30	371.2	2,751.6	378.9	234.0	144.95	2.614		
10,600.0	7,321.4	10,218.6	7,119.2	90.0	86.8	57.10	374.0	2,860.3	377.3	227.7	149.53	2.523		
10,700.0	7,321.4	10,317.6	7,118.8	92.7	89.5	56.70	378.6	2,959.2	373.9	220.4	153.54	2.435		
10,800.0	7,321.4	10,414.1	7,119.0	95.5	92.2	56.52	381.4	3,055.6	371.7	213.9	157.83	2.355		
10,900.0	7,321.4	10,510.2	7,118.0	98.2	94.8	56.19	384.2	3,151.7	370.3	208.5	161.84	2.288		
10,962.3	7,321.4	10,569.7	7,117.8	99.9	96.5	56.15	384.8	3,211.2	370.1	205.5	164.59	2.249		
11,000.0	7,321.4	10,604.5	7,118.0	101.0	97.4	56.18	384.8	3,246.0	370.2	203.9	166.34	2.226		
11,100.0	7,321.4	10,702.9	7,117.8	103.7	100.1	56.26	384.1	3,344.4	371.3	200.2	171.10	2.170		
11,200.0	7,321.4	10,806.1	7,118.1	106.5	103.0	56.43	383.0	3,447.6	372.5	196.3	176.16	2.114		
11,300.0	7,321.4	10,908.2	7,118.9	109.2	105.8	56.63	382.3	3,549.7	373.0	191.7	181.27	2.058		
11,400.0	7,321.4	11,011.4	7,120.3	112.0	108.7	56.85	382.4	3,652.8	372.5	186.0	186.45	1.998		
11,500.0	7,321.4	11,108.3	7,120.7	114.8	111.4	56.81	384.0	3,749.7	371.3	180.3	191.00	1.944		
11,507.8	7,321.4	11,115.1	7,120.6	115.0	111.6	56.79	384.1	3,756.6	371.3	180.0	191.30	1.941		
11,600.0	7,321.4	11,209.0	7,118.2	117.5	114.2	56.37	385.7	3,850.5	371.7	176.8	194.81	1.908		
11,683.3	7,321.4	11,290.8	7,116.6	119.8	116.4	56.04	387.6	3,932.1	371.3	173.4	197.98	1.876		

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 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Postle West Pad Sec.11-T3N-R68W - Postle IC 11-4HN - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0ft
Survey Program: 229-MWD														Offset Well Error:	0.0ft
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			
11,700.0	7,321.4	11,305.9	7,116.3	120.3	116.8	55.99	387.8	3,947.3	371.4	172.8	198.60	1.870			
11,800.0	7,321.4	11,405.5	7,113.8	123.1	119.6	55.63	388.8	4,046.9	372.3	169.8	202.48	1.839			
11,900.0	7,321.4	11,513.5	7,112.9	125.8	122.6	55.43	390.3	4,154.8	372.0	165.2	206.87	1.798			
12,000.0	7,321.4	11,612.5	7,114.7	128.6	125.4	55.57	391.8	4,253.8	370.2	158.4	211.81	1.748			
12,100.0	7,321.4	11,709.7	7,115.1	131.4	128.1	55.55	393.1	4,351.0	369.3	152.9	216.34	1.707			
12,107.5	7,321.4	11,715.0	7,115.1	131.6	128.2	55.54	393.1	4,356.3	369.2	152.6	216.61	1.705			
12,131.8	7,321.4	11,715.0	7,115.1	132.3	128.2	55.54	393.1	4,356.3	370.0	152.9	217.17	1.704 SF			

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle LC 11-002HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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	-92.81	-2.9	-59.5	59.5					
100.0	100.0	100.0	100.0	0.1	0.1	-92.81	-2.9	-59.5	59.5	59.3	0.22	264.868		
200.0	200.0	200.0	200.0	0.3	0.3	-92.81	-2.9	-59.5	59.5	58.9	0.67	88.289		
300.0	300.0	300.0	300.0	0.6	0.6	-92.81	-2.9	-59.5	59.5	58.4	1.12	52.974		
400.0	400.0	400.0	400.0	0.8	0.8	-92.81	-2.9	-59.5	59.5	58.0	1.57	37.838		
500.0	500.0	500.0	500.0	1.0	1.0	-92.81	-2.9	-59.5	59.5	57.5	2.02	29.430		
600.0	600.0	600.0	600.0	1.2	1.2	-92.81	-2.9	-59.5	59.5	57.1	2.47	24.079		
700.0	700.0	700.0	700.0	1.5	1.5	-92.81	-2.9	-59.5	59.5	56.6	2.92	20.374		
800.0	800.0	800.0	800.0	1.7	1.7	-92.81	-2.9	-59.5	59.5	56.2	3.37	17.658		
900.0	900.0	900.0	900.0	1.9	1.9	-92.81	-2.9	-59.5	59.5	55.7	3.82	15.580		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-92.81	-2.9	-59.5	59.5	55.3	4.27	13.940		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-92.81	-2.9	-59.5	59.5	54.8	4.72	12.613		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-92.81	-2.9	-59.5	59.5	54.4	5.17	11.516		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-92.81	-2.9	-59.5	59.5	53.9	5.62	10.595		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-92.81	-2.9	-59.5	59.5	53.5	6.07	9.810		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-92.81	-2.9	-59.5	59.5	53.0	6.52	9.133		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-92.81	-2.9	-59.5	59.5	52.6	6.97	8.544		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-92.81	-2.9	-59.5	59.5	52.1	7.42	8.026		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-92.81	-2.9	-59.5	59.5	51.7	7.87	7.568		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-92.81	-2.9	-59.5	59.5	51.2	8.32	7.159		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-92.81	-2.9	-59.5	59.5	50.8	8.77	6.791		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-92.81	-2.9	-59.5	59.5	50.3	9.22	6.460		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-92.81	-2.9	-59.5	59.5	49.9	9.66	6.160		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-92.81	-2.9	-59.5	59.5	49.4	10.11	5.886		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-92.81	-2.9	-59.5	59.5	49.0	10.56	5.635		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-92.81	-2.9	-59.5	59.5	48.5	11.01	5.405		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-92.81	-2.9	-59.5	59.5	48.1	11.46	5.193		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-92.81	-2.9	-59.5	59.5	47.6	11.91	4.998		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-92.81	-2.9	-59.5	59.5	47.2	12.36	4.816		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-92.81	-2.9	-59.5	59.5	46.7	12.81	4.647		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-92.81	-2.9	-59.5	59.5	46.3	13.26	4.489		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-92.81	-2.9	-59.5	59.5	45.8	13.71	4.342		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-92.81	-2.9	-59.5	59.5	45.4	14.16	4.204		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-92.81	-2.9	-59.5	59.5	44.9	14.61	4.075		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-92.81	-2.9	-59.5	59.5	44.5	15.06	3.953		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-92.81	-2.9	-59.5	59.5	44.0	15.51	3.839		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-92.81	-2.9	-59.5	59.5	43.6	15.96	3.731		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-92.81	-2.9	-59.5	59.5	43.1	16.41	3.628		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-92.81	-2.9	-59.5	59.5	42.7	16.86	3.532		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-92.81	-2.9	-59.5	59.5	42.2	17.31	3.440		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-92.81	-2.9	-59.5	59.5	41.8	17.76	3.353 CC, ES		
4,100.0	4,100.0	4,099.2	4,099.1	9.1	9.1	-90.43	-0.5	-60.2	60.2	42.0	18.20	3.308		
4,200.0	4,200.0	4,197.8	4,197.4	9.3	9.3	-83.72	6.9	-62.4	62.9	44.2	18.65	3.371		
4,300.0	4,300.0	4,295.4	4,294.2	9.6	9.5	-74.05	18.9	-66.1	69.0	49.9	19.09	3.614		
4,400.0	4,400.0	4,391.4	4,388.7	9.8	9.8	-63.58	35.3	-71.1	80.2	60.7	19.53	4.105		
4,500.0	4,500.0	4,485.5	4,480.3	10.0	10.0	-54.18	55.8	-77.3	97.4	77.4	19.97	4.875		
4,600.0	4,600.0	4,577.2	4,568.5	10.2	10.2	-46.65	79.9	-84.7	120.6	100.2	20.41	5.908		
4,700.0	4,700.0	4,666.3	4,652.9	10.5	10.5	-40.93	107.2	-92.9	149.5	128.6	20.85	7.168		
4,800.0	4,800.0	4,752.5	4,733.1	10.7	10.8	-36.66	137.1	-102.0	183.5	162.2	21.30	8.614		
4,900.0	4,900.0	4,835.5	4,809.1	10.9	11.1	-33.46	169.2	-111.8	222.2	200.4	21.76	10.211		
5,000.0	5,000.0	4,915.3	4,880.7	11.1	11.5	-31.03	202.9	-122.1	265.2	243.0	22.23	11.930		
5,100.0	5,100.0	4,991.8	4,947.8	11.4	11.9	-29.15	238.0	-132.7	312.1	289.4	22.71	13.744		

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 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle LC 11-002HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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	5,077.3	5,021.9	11.6	12.4	-27.50	278.8	-145.1	361.3	338.0	23.24	15.543		
5,300.0	5,300.0	5,164.5	5,097.4	11.8	12.9	15.88	320.5	-157.8	409.6	386.3	23.33	17.557		
5,400.0	5,399.8	5,253.8	5,174.8	12.0	13.5	16.72	363.1	-170.8	453.8	430.1	23.73	19.120		
5,500.0	5,499.1	5,345.0	5,253.8	12.2	14.1	17.57	406.7	-184.0	493.6	469.5	24.11	20.474		
5,600.0	5,597.7	5,437.9	5,334.3	12.5	14.8	18.46	451.1	-197.6	529.0	504.6	24.46	21.628		
5,700.0	5,695.3	5,532.3	5,416.1	12.7	15.5	19.41	496.2	-211.3	560.0	535.2	24.79	22.592		
5,800.0	5,791.6	5,627.9	5,498.9	13.0	16.3	20.45	541.9	-225.2	586.4	561.4	25.09	23.371		
5,900.0	5,886.3	5,724.3	5,582.5	13.3	17.0	21.59	588.0	-239.2	608.5	583.1	25.39	23.966		
6,000.0	5,979.3	5,821.5	5,666.6	13.6	17.8	22.86	634.4	-253.3	626.1	600.4	25.69	24.376		
6,100.0	6,070.2	5,919.0	5,751.1	14.0	18.6	24.27	681.0	-267.5	639.4	613.4	26.00	24.591		
6,200.0	6,158.8	6,016.7	5,835.7	14.5	19.5	25.86	727.7	-281.7	648.6	622.2	26.36	24.600		
6,300.0	6,245.5	6,114.3	5,920.3	15.0	20.3	27.64	774.3	-295.8	654.6	627.6	27.02	24.223		
6,400.0	6,331.9	6,211.8	6,004.8	15.6	21.1	29.43	820.9	-310.0	661.0	633.1	27.87	23.713		
6,500.0	6,418.4	6,309.4	6,089.3	16.3	22.0	31.19	867.6	-324.2	668.0	639.2	28.80	23.199		
6,600.0	6,504.8	6,407.0	6,173.8	17.0	22.9	32.91	914.2	-338.4	675.7	645.9	29.79	22.682		
6,700.0	6,591.3	6,504.5	6,258.4	17.7	23.7	34.59	960.8	-352.6	684.0	653.2	30.86	22.166		
6,800.0	6,677.7	6,602.1	6,342.9	18.5	24.6	36.23	1,007.4	-366.7	692.9	660.9	32.00	21.652		
6,900.0	6,764.2	6,699.6	6,427.4	19.2	25.5	37.83	1,054.0	-380.9	702.4	669.2	33.22	21.144		
7,000.0	6,852.6	6,798.3	6,512.8	19.9	26.4	21.75	1,101.2	-395.2	712.3	677.8	34.46	20.671		
7,100.0	6,944.2	6,897.1	6,598.4	20.3	27.3	-7.05	1,148.4	-409.6	721.7	686.5	35.17	20.521		
7,200.0	7,034.4	6,991.1	6,679.9	20.6	28.2	-33.29	1,193.3	-423.3	731.1	695.7	35.45	20.624		
7,300.0	7,118.5	7,082.8	6,759.6	20.8	29.0	-50.48	1,237.3	-433.1	742.5	706.9	35.62	20.843		
7,400.0	7,192.3	7,188.2	6,851.2	20.8	29.7	-61.28	1,287.9	-422.7	756.4	720.4	35.95	21.037		
7,500.0	7,251.9	7,313.5	6,953.4	20.8	30.3	-68.60	1,344.6	-378.6	771.5	734.9	36.59	21.085		
7,600.0	7,294.3	7,467.2	7,057.5	20.7	30.8	-73.88	1,402.6	-282.8	785.6	747.9	37.70	20.836		
7,700.0	7,317.4	7,653.7	7,135.9	20.7	31.1	-77.14	1,446.7	-121.0	795.2	755.5	39.72	20.023		
7,800.0	7,321.4	7,820.2	7,152.4	20.9	31.1	-77.76	1,456.7	43.6	797.4	754.9	42.51	18.760		
7,900.0	7,321.4	7,920.2	7,152.4	22.2	31.1	-77.76	1,457.2	143.6	797.5	752.3	45.18	17.652		
8,000.0	7,321.4	8,020.2	7,152.4	23.9	31.3	-77.77	1,457.7	243.6	797.5	749.2	48.33	16.502		
8,100.0	7,321.4	8,120.2	7,152.4	25.8	31.7	-77.77	1,458.1	343.6	797.5	745.6	51.87	15.376		
8,200.0	7,321.4	8,220.2	7,152.4	27.9	32.4	-77.77	1,458.6	443.6	797.5	741.8	55.73	14.311		
8,300.0	7,321.4	8,320.2	7,152.4	30.0	33.5	-77.77	1,459.1	543.6	797.5	737.7	59.84	13.328		
8,400.0	7,321.4	8,420.2	7,152.4	32.3	35.0	-77.77	1,459.6	643.6	797.6	733.4	64.16	12.430		
8,500.0	7,321.4	8,520.2	7,152.4	34.6	36.8	-77.77	1,460.1	743.6	797.6	728.9	68.65	11.618		
8,600.0	7,321.4	8,620.2	7,152.4	37.0	38.8	-77.77	1,460.6	843.6	797.6	724.3	73.28	10.885		
8,700.0	7,321.4	8,720.2	7,152.4	39.5	41.0	-77.77	1,461.1	943.6	797.6	719.6	78.02	10.224		
8,800.0	7,321.4	8,820.2	7,152.4	42.0	43.3	-77.77	1,461.6	1,043.6	797.7	714.8	82.85	9.628		
8,900.0	7,321.4	8,920.2	7,152.4	44.5	45.7	-77.77	1,462.1	1,143.6	797.7	709.9	87.76	9.089		
9,000.0	7,321.4	9,020.2	7,152.4	47.1	48.1	-77.77	1,462.6	1,243.6	797.7	705.0	92.73	8.602		
9,100.0	7,321.4	9,120.2	7,152.4	49.6	50.6	-77.77	1,463.1	1,343.6	797.7	700.0	97.77	8.160		
9,200.0	7,321.4	9,220.2	7,152.4	52.2	53.1	-77.77	1,463.6	1,443.6	797.8	694.9	102.84	7.757		
9,300.0	7,321.4	9,320.2	7,152.4	54.9	55.7	-77.77	1,464.1	1,543.6	797.8	689.8	107.96	7.389		
9,400.0	7,321.4	9,420.2	7,152.4	57.5	58.2	-77.77	1,464.5	1,643.6	797.8	684.7	113.12	7.053		
9,500.0	7,321.4	9,520.2	7,152.4	60.2	60.8	-77.77	1,465.0	1,743.6	797.8	679.5	118.30	6.744		
9,600.0	7,321.4	9,620.2	7,152.4	62.8	63.4	-77.77	1,465.5	1,843.6	797.8	674.3	123.51	6.460		
9,700.0	7,321.4	9,720.2	7,152.4	65.5	66.1	-77.77	1,466.0	1,943.6	797.9	669.1	128.75	6.197		
9,800.0	7,321.4	9,820.2	7,152.4	68.2	68.7	-77.77	1,466.5	2,043.6	797.9	663.9	134.00	5.954		
9,900.0	7,321.4	9,920.2	7,152.4	70.9	71.4	-77.77	1,467.0	2,143.6	797.9	658.6	139.28	5.729		
10,000.0	7,321.4	10,020.2	7,152.4	73.6	74.0	-77.77	1,467.5	2,243.6	797.9	653.4	144.57	5.519		
10,100.0	7,321.4	10,120.2	7,152.4	76.3	76.7	-77.77	1,468.0	2,343.5	798.0	648.1	149.87	5.324		
10,200.0	7,321.4	10,220.2	7,152.4	79.0	79.4	-77.77	1,468.5	2,443.5	798.0	642.8	155.19	5.142		
10,300.0	7,321.4	10,320.2	7,152.4	81.8	82.1	-77.77	1,469.0	2,543.5	798.0	637.5	160.52	4.971		

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 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle LC 11-002HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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		
10,400.0	7,321.4	10,420.2	7,152.4	84.5	84.8	-77.77	1,469.5	2,643.5	798.0	632.2	165.86	4.811		
10,500.0	7,321.4	10,520.2	7,152.4	87.2	87.5	-77.77	1,470.0	2,743.5	798.0	626.8	171.21	4.661		
10,600.0	7,321.4	10,620.2	7,152.4	90.0	90.2	-77.77	1,470.4	2,843.5	798.1	621.5	176.57	4.520		
10,700.0	7,321.4	10,720.2	7,152.4	92.7	92.9	-77.77	1,470.9	2,943.5	798.1	616.2	181.94	4.387		
10,800.0	7,321.4	10,820.2	7,152.4	95.5	95.7	-77.78	1,471.4	3,043.5	798.1	610.8	187.31	4.261		
10,900.0	7,321.4	10,920.2	7,152.4	98.2	98.4	-77.78	1,471.9	3,143.5	798.1	605.4	192.69	4.142		
11,000.0	7,321.4	11,020.2	7,152.4	101.0	101.1	-77.78	1,472.4	3,243.5	798.2	600.1	198.08	4.029		
11,100.0	7,321.4	11,120.2	7,152.4	103.7	103.9	-77.78	1,472.9	3,343.5	798.2	594.7	203.47	3.923		
11,200.0	7,321.4	11,220.2	7,152.4	106.5	106.6	-77.78	1,473.4	3,443.5	798.2	589.3	208.87	3.822		
11,300.0	7,321.4	11,320.2	7,152.4	109.2	109.3	-77.78	1,473.9	3,543.5	798.2	584.0	214.27	3.725		
11,400.0	7,321.4	11,420.2	7,152.4	112.0	112.1	-77.78	1,474.4	3,643.5	798.2	578.6	219.68	3.634		
11,500.0	7,321.4	11,520.2	7,152.4	114.8	114.8	-77.78	1,474.9	3,743.5	798.3	573.2	225.09	3.546		
11,600.0	7,321.4	11,620.2	7,152.4	117.5	117.6	-77.78	1,475.4	3,843.5	798.3	567.8	230.51	3.463		
11,700.0	7,321.4	11,720.2	7,152.4	120.3	120.3	-77.78	1,475.9	3,943.5	798.3	562.4	235.93	3.384		
11,800.0	7,321.4	11,820.2	7,152.4	123.1	123.1	-77.78	1,476.3	4,043.5	798.3	557.0	241.35	3.308		
11,900.0	7,321.4	11,920.2	7,152.4	125.8	125.8	-77.78	1,476.8	4,143.5	798.4	551.6	246.78	3.235		
12,000.0	7,321.4	12,020.2	7,152.4	128.6	128.6	-77.78	1,477.3	4,243.5	798.4	546.2	252.20	3.166		
12,100.0	7,321.4	12,120.2	7,152.4	131.4	131.4	-77.78	1,477.8	4,343.5	798.4	540.8	257.64	3.099		
12,131.8	7,321.4	12,152.0	7,152.4	132.3	132.2	-77.78	1,478.0	4,375.3	798.4	539.1	259.36	3.078 SF		

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well PostleIC 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PostleIC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - PostleIC 11-039HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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	-91.38	-0.7	-30.1	30.2					
100.0	100.0	100.0	100.0	0.1	0.1	-91.38	-0.7	-30.1	30.2	29.9	0.22	134.177		
200.0	200.0	200.0	200.0	0.3	0.3	-91.38	-0.7	-30.1	30.2	29.5	0.67	44.726		
300.0	300.0	300.0	300.0	0.6	0.6	-91.38	-0.7	-30.1	30.2	29.0	1.12	26.835		
400.0	400.0	400.0	400.0	0.8	0.8	-91.38	-0.7	-30.1	30.2	28.6	1.57	19.168		
500.0	500.0	500.0	500.0	1.0	1.0	-91.38	-0.7	-30.1	30.2	28.1	2.02	14.909		
600.0	600.0	600.0	600.0	1.2	1.2	-91.38	-0.7	-30.1	30.2	27.7	2.47	12.198		
700.0	700.0	700.0	700.0	1.5	1.5	-91.38	-0.7	-30.1	30.2	27.2	2.92	10.321		
800.0	800.0	800.0	800.0	1.7	1.7	-91.38	-0.7	-30.1	30.2	26.8	3.37	8.945		
900.0	900.0	900.0	900.0	1.9	1.9	-91.38	-0.7	-30.1	30.2	26.3	3.82	7.893		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-91.38	-0.7	-30.1	30.2	25.9	4.27	7.062		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-91.38	-0.7	-30.1	30.2	25.4	4.72	6.389		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-91.38	-0.7	-30.1	30.2	25.0	5.17	5.834		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-91.38	-0.7	-30.1	30.2	24.5	5.62	5.367		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-91.38	-0.7	-30.1	30.2	24.1	6.07	4.970		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-91.38	-0.7	-30.1	30.2	23.6	6.52	4.627		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-91.38	-0.7	-30.1	30.2	23.2	6.97	4.328		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-91.38	-0.7	-30.1	30.2	22.7	7.42	4.066		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-91.38	-0.7	-30.1	30.2	22.3	7.87	3.834		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-91.38	-0.7	-30.1	30.2	21.8	8.32	3.626		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-91.38	-0.7	-30.1	30.2	21.4	8.77	3.440		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-91.38	-0.7	-30.1	30.2	20.9	9.22	3.273		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-91.38	-0.7	-30.1	30.2	20.5	9.66	3.120		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-91.38	-0.7	-30.1	30.2	20.0	10.11	2.982		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-91.38	-0.7	-30.1	30.2	19.6	10.56	2.855		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-91.38	-0.7	-30.1	30.2	19.1	11.01	2.738		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-91.38	-0.7	-30.1	30.2	18.7	11.46	2.631		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-91.38	-0.7	-30.1	30.2	18.2	11.91	2.532		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-91.38	-0.7	-30.1	30.2	17.8	12.36	2.440		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-91.38	-0.7	-30.1	30.2	17.3	12.81	2.354		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-91.38	-0.7	-30.1	30.2	16.9	13.26	2.274		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-91.38	-0.7	-30.1	30.2	16.4	13.71	2.200		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-91.38	-0.7	-30.1	30.2	16.0	14.16	2.130		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-91.38	-0.7	-30.1	30.2	15.5	14.61	2.064		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-91.38	-0.7	-30.1	30.2	15.1	15.06	2.003		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-91.38	-0.7	-30.1	30.2	14.6	15.51	1.945		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-91.38	-0.7	-30.1	30.2	14.2	15.96	1.890		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-91.38	-0.7	-30.1	30.2	13.8	16.41	1.838		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-91.38	-0.7	-30.1	30.2	13.3	16.86	1.789		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-91.38	-0.7	-30.1	30.2	12.9	17.31	1.743		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-91.38	-0.7	-30.1	30.2	12.4	17.76	1.698		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-91.38	-0.7	-30.1	30.2	12.0	18.21	1.657		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	-91.38	-0.7	-30.1	30.2	11.5	18.66	1.617		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	-91.38	-0.7	-30.1	30.2	11.1	19.11	1.579		
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	-91.38	-0.7	-30.1	30.2	10.6	19.55	1.542		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	-91.38	-0.7	-30.1	30.2	10.2	20.00	1.508		
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	-91.38	-0.7	-30.1	30.2	9.7	20.45	1.474 Level 3		
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	-91.38	-0.7	-30.1	30.2	9.3	20.90	1.443 Level 3, CC, ES, SF		
4,800.0	4,800.0	4,799.3	4,799.3	10.7	10.7	-87.94	1.1	-31.1	31.2	9.8	21.35	1.459 Level 3		
4,900.0	4,900.0	4,898.1	4,897.8	10.9	10.9	-77.79	7.5	-34.5	35.3	13.5	21.79	1.621		
5,000.0	5,000.0	4,995.8	4,994.8	11.1	11.1	-65.65	18.2	-40.1	44.3	22.1	22.24	1.994		
5,100.0	5,100.0	5,092.1	5,089.6	11.4	11.3	-55.47	33.0	-47.9	59.1	36.4	22.68	2.606		

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 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Postle West Pad Sec.11-T3N-R68W - Postle LC 11-039HN - Wellbore #1 - Plan #1 (12-10-13)	Offset Site Error:	0.0ft
Survey Program: 0-MWD														Offset Well Error:	0.0ft
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	5,186.4	5,181.5	11.6	11.6	-48.22	51.6	-57.7	79.6	56.5	23.12	3.442			
5,300.0	5,300.0	5,278.8	5,270.4	11.8	11.8	-0.93	73.6	-69.4	104.2	80.7	23.51	4.430			
5,400.0	5,399.8	5,370.0	5,356.9	12.0	12.1	2.57	99.1	-82.8	129.0	105.1	23.87	5.402			
5,500.0	5,499.1	5,460.1	5,440.9	12.2	12.4	5.31	127.9	-98.0	153.6	129.4	24.18	6.351			
5,600.0	5,597.7	5,549.1	5,522.4	12.5	12.7	7.60	159.7	-114.8	178.0	153.5	24.44	7.282			
5,700.0	5,695.3	5,637.2	5,601.2	12.7	13.1	9.59	194.5	-133.1	202.1	177.4	24.66	8.196			
5,800.0	5,791.6	5,725.5	5,678.4	13.0	13.6	11.42	232.5	-153.1	225.9	201.0	24.84	9.093			
5,900.0	5,886.3	5,823.0	5,762.7	13.3	14.1	13.31	275.7	-175.9	246.6	221.6	25.02	9.856			
6,000.0	5,979.3	5,921.3	5,847.8	13.6	14.7	15.19	319.3	-198.9	262.6	237.4	25.19	10.424			
6,100.0	6,070.2	6,020.2	5,933.3	14.0	15.4	17.19	363.2	-222.0	274.0	248.6	25.38	10.793			
6,200.0	6,158.8	6,119.3	6,019.1	14.5	16.1	19.39	407.1	-245.2	280.7	255.1	25.62	10.959			
6,300.0	6,245.5	6,218.5	6,104.9	15.0	16.8	21.84	451.1	-268.4	284.1	257.9	26.21	10.839			
6,400.0	6,331.9	6,317.7	6,190.7	15.6	17.5	24.27	495.1	-291.6	287.6	260.6	27.04	10.639			
6,500.0	6,418.4	6,416.9	6,276.6	16.3	18.3	26.63	539.1	-314.8	291.7	263.7	27.95	10.437			
6,600.0	6,504.8	6,516.1	6,362.4	17.0	19.1	28.93	583.1	-338.0	296.2	267.3	28.95	10.232			
6,700.0	6,591.3	6,615.3	6,448.2	17.7	19.9	31.15	627.1	-361.2	301.3	271.2	30.05	10.026			
6,800.0	6,677.7	6,714.5	6,534.0	18.5	20.8	33.30	671.1	-384.4	306.7	275.5	31.24	9.819			
6,900.0	6,764.2	6,813.7	6,619.9	19.2	21.6	35.37	715.1	-407.6	312.6	280.1	32.52	9.613			
7,000.0	6,852.6	6,913.6	6,706.7	19.9	22.4	37.98	759.6	-428.8	319.0	285.3	33.68	9.472			
7,100.0	6,944.2	7,013.8	6,795.7	20.3	23.0	-8.96	805.2	-431.1	325.8	291.3	34.44	9.460			
7,200.0	7,034.4	7,113.5	6,882.4	20.6	23.5	-32.79	849.6	-411.0	332.4	297.5	34.89	9.529			
7,300.0	7,118.5	7,212.8	6,962.6	20.8	23.8	-46.79	890.7	-369.7	338.7	303.6	35.09	9.650			
7,400.0	7,192.3	7,311.7	7,032.3	20.8	24.0	-54.28	926.4	-309.6	344.1	308.9	35.21	9.772			
7,500.0	7,251.9	7,410.3	7,088.2	20.8	24.0	-58.31	955.1	-233.9	348.6	313.1	35.49	9.820			
7,600.0	7,294.3	7,508.7	7,127.6	20.7	24.0	-60.42	975.3	-146.3	351.7	315.5	36.20	9.715			
7,700.0	7,317.4	7,606.9	7,148.9	20.7	24.0	-61.34	986.2	-51.3	353.4	315.9	37.54	9.416			
7,800.0	7,321.4	7,704.2	7,152.4	20.9	23.8	-61.46	988.1	45.9	353.7	314.2	39.50	8.955			
7,900.0	7,321.4	7,804.2	7,152.4	22.2	23.9	-61.46	988.6	145.9	353.8	311.7	42.02	8.419			
8,000.0	7,321.4	7,904.2	7,152.4	23.9	24.4	-61.47	989.1	245.9	353.8	308.8	44.95	7.871			
8,100.0	7,321.4	8,004.2	7,152.4	25.8	26.0	-61.47	989.6	345.9	353.8	305.6	48.22	7.338			
8,200.0	7,321.4	8,104.2	7,152.4	27.9	28.0	-61.47	990.1	445.9	353.8	302.1	51.76	6.836			
8,300.0	7,321.4	8,204.2	7,152.4	30.0	30.1	-61.47	990.6	545.9	353.8	298.3	55.52	6.373			
8,400.0	7,321.4	8,304.2	7,152.4	32.3	32.3	-61.47	991.1	645.9	353.9	294.4	59.47	5.951			
8,500.0	7,321.4	8,404.2	7,152.4	34.6	34.6	-61.47	991.6	745.9	353.9	290.3	63.56	5.568			
8,600.0	7,321.4	8,504.2	7,152.4	37.0	37.0	-61.48	992.1	845.9	353.9	286.1	67.77	5.223			
8,700.0	7,321.4	8,604.2	7,152.4	39.5	39.4	-61.48	992.6	945.9	353.9	281.9	72.08	4.911			
8,800.0	7,321.4	8,704.2	7,152.4	42.0	41.9	-61.48	993.1	1,045.9	354.0	277.5	76.47	4.629			
8,900.0	7,321.4	8,804.2	7,152.4	44.5	44.4	-61.48	993.5	1,145.9	354.0	273.1	80.93	4.374			
9,000.0	7,321.4	8,904.2	7,152.4	47.1	47.0	-61.48	994.0	1,245.9	354.0	268.6	85.45	4.143			
9,100.0	7,321.4	9,004.2	7,152.4	49.6	49.6	-61.49	994.5	1,345.9	354.0	264.0	90.01	3.933			
9,200.0	7,321.4	9,104.2	7,152.4	52.2	52.2	-61.49	995.0	1,445.9	354.0	259.4	94.62	3.742			
9,300.0	7,321.4	9,204.2	7,152.4	54.9	54.8	-61.49	995.5	1,545.9	354.1	254.8	99.27	3.567			
9,400.0	7,321.4	9,304.2	7,152.4	57.5	57.4	-61.49	996.0	1,645.9	354.1	250.1	103.95	3.406			
9,500.0	7,321.4	9,404.2	7,152.4	60.2	60.1	-61.49	996.5	1,745.9	354.1	245.5	108.65	3.259			
9,600.0	7,321.4	9,504.2	7,152.4	62.8	62.7	-61.50	997.0	1,845.9	354.1	240.8	113.38	3.123			
9,700.0	7,321.4	9,604.2	7,152.4	65.5	65.4	-61.50	997.5	1,945.9	354.2	236.0	118.13	2.998			
9,800.0	7,321.4	9,704.2	7,152.4	68.2	68.1	-61.50	998.0	2,045.9	354.2	231.3	122.90	2.882			
9,900.0	7,321.4	9,804.2	7,152.4	70.9	70.8	-61.50	998.5	2,145.9	354.2	226.5	127.69	2.774			
10,000.0	7,321.4	9,904.2	7,152.4	73.6	73.5	-61.50	999.0	2,245.8	354.2	221.7	132.49	2.674			
10,100.0	7,321.4	10,004.2	7,152.4	76.3	76.2	-61.51	999.5	2,345.8	354.2	216.9	137.30	2.580			
10,200.0	7,321.4	10,104.2	7,152.4	79.0	78.9	-61.51	1,000.0	2,445.8	354.3	212.1	142.13	2.493			
10,300.0	7,321.4	10,204.2	7,152.4	81.8	81.6	-61.51	1,000.5	2,545.8	354.3	207.3	146.97	2.411			

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 LC 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle LC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle LC 11-039HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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		
10,400.0	7,321.4	10,304.2	7,152.4	84.5	84.3	-61.51	1,001.0	2,645.8	354.3	202.5	151.81	2.334		
10,500.0	7,321.4	10,404.2	7,152.4	87.2	87.1	-61.51	1,001.4	2,745.8	354.3	197.7	156.67	2.262		
10,600.0	7,321.4	10,504.2	7,152.4	90.0	89.8	-61.52	1,001.9	2,845.8	354.4	192.8	161.53	2.194		
10,700.0	7,321.4	10,604.2	7,152.4	92.7	92.5	-61.52	1,002.4	2,945.8	354.4	188.0	166.41	2.130		
10,800.0	7,321.4	10,704.2	7,152.4	95.5	95.3	-61.52	1,002.9	3,045.8	354.4	183.1	171.28	2.069		
10,900.0	7,321.4	10,804.2	7,152.4	98.2	98.0	-61.52	1,003.4	3,145.8	354.4	178.2	176.17	2.012		
11,000.0	7,321.4	10,904.2	7,152.4	101.0	100.8	-61.52	1,003.9	3,245.8	354.4	173.4	181.06	1.958		
11,100.0	7,321.4	11,004.2	7,152.4	103.7	103.5	-61.52	1,004.4	3,345.8	354.5	168.5	185.96	1.906		
11,200.0	7,321.4	11,104.2	7,152.4	106.5	106.3	-61.53	1,004.9	3,445.8	354.5	163.6	190.86	1.857		
11,300.0	7,321.4	11,204.2	7,152.4	109.2	109.0	-61.53	1,005.4	3,545.8	354.5	158.7	195.76	1.811		
11,400.0	7,321.4	11,304.2	7,152.4	112.0	111.8	-61.53	1,005.9	3,645.8	354.5	153.9	200.67	1.767		
11,500.0	7,321.4	11,404.2	7,152.4	114.8	114.6	-61.53	1,006.4	3,745.8	354.5	149.0	205.58	1.725		
11,600.0	7,321.4	11,504.2	7,152.4	117.5	117.3	-61.53	1,006.9	3,845.8	354.6	144.1	210.50	1.684		
11,700.0	7,321.4	11,604.2	7,152.4	120.3	120.1	-61.54	1,007.4	3,945.8	354.6	139.2	215.42	1.646		
11,800.0	7,321.4	11,704.2	7,152.4	123.1	122.9	-61.54	1,007.9	4,045.8	354.6	134.3	220.35	1.609		
11,900.0	7,321.4	11,804.2	7,152.4	125.8	125.6	-61.54	1,008.4	4,145.8	354.6	129.4	225.27	1.574		
12,000.0	7,321.4	11,904.2	7,152.4	128.6	128.4	-61.54	1,008.9	4,245.8	354.7	124.5	230.20	1.541		
12,100.0	7,321.4	12,004.2	7,152.4	131.4	131.2	-61.54	1,009.3	4,345.8	354.7	119.5	235.14	1.508		
12,131.8	7,321.4	12,036.0	7,152.4	132.3	132.0	-61.54	1,009.5	4,377.6	354.7	118.0	236.70	1.498 Level 3		

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-122HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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	87.94	1.1	30.4	30.4					
100.0	100.0	100.0	100.0	0.1	0.1	87.94	1.1	30.4	30.4	30.2	0.22	135.468		
200.0	200.0	200.0	200.0	0.3	0.3	87.94	1.1	30.4	30.4	29.8	0.67	45.156		
300.0	300.0	300.0	300.0	0.6	0.6	87.94	1.1	30.4	30.4	29.3	1.12	27.094		
400.0	400.0	400.0	400.0	0.8	0.8	87.94	1.1	30.4	30.4	28.9	1.57	19.353		
500.0	500.0	500.0	500.0	1.0	1.0	87.94	1.1	30.4	30.4	28.4	2.02	15.052		
600.0	600.0	600.0	600.0	1.2	1.2	87.94	1.1	30.4	30.4	28.0	2.47	12.315		
700.0	700.0	700.0	700.0	1.5	1.5	87.94	1.1	30.4	30.4	27.5	2.92	10.421		
800.0	800.0	800.0	800.0	1.7	1.7	87.94	1.1	30.4	30.4	27.1	3.37	9.031		
900.0	900.0	900.0	900.0	1.9	1.9	87.94	1.1	30.4	30.4	26.6	3.82	7.969		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	87.94	1.1	30.4	30.4	26.2	4.27	7.130		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	87.94	1.1	30.4	30.4	25.7	4.72	6.451		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	87.94	1.1	30.4	30.4	25.3	5.17	5.890		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	87.94	1.1	30.4	30.4	24.8	5.62	5.419		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	87.94	1.1	30.4	30.4	24.4	6.07	5.017		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	87.94	1.1	30.4	30.4	23.9	6.52	4.671		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	87.94	1.1	30.4	30.4	23.5	6.97	4.370		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	87.94	1.1	30.4	30.4	23.0	7.42	4.105		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	87.94	1.1	30.4	30.4	22.6	7.87	3.871		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	87.94	1.1	30.4	30.4	22.1	8.32	3.661		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	87.94	1.1	30.4	30.4	21.7	8.77	3.474		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	87.94	1.1	30.4	30.4	21.2	9.22	3.304		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	87.94	1.1	30.4	30.4	20.8	9.66	3.150		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	87.94	1.1	30.4	30.4	20.3	10.11	3.010		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	87.94	1.1	30.4	30.4	19.9	10.56	2.882		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	87.94	1.1	30.4	30.4	19.4	11.01	2.765		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	87.94	1.1	30.4	30.4	19.0	11.46	2.656		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	87.94	1.1	30.4	30.4	18.5	11.91	2.556		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	87.94	1.1	30.4	30.4	18.1	12.36	2.463		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	87.94	1.1	30.4	30.4	17.6	12.81	2.377		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	87.94	1.1	30.4	30.4	17.2	13.26	2.296		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	87.94	1.1	30.4	30.4	16.7	13.71	2.221		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	87.94	1.1	30.4	30.4	16.3	14.16	2.150		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	87.94	1.1	30.4	30.4	15.8	14.61	2.084		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	87.94	1.1	30.4	30.4	15.4	15.06	2.022		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	87.94	1.1	30.4	30.4	14.9	15.51	1.963		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	87.94	1.1	30.4	30.4	14.5	15.96	1.908		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	87.94	1.1	30.4	30.4	14.0	16.41	1.856		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	87.94	1.1	30.4	30.4	13.6	16.86	1.806		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	87.94	1.1	30.4	30.4	13.1	17.31	1.759		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	87.94	1.1	30.4	30.4	12.7	17.76	1.715		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	87.94	1.1	30.4	30.4	12.2	18.21	1.672		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	87.94	1.1	30.4	30.4	11.8	18.66	1.632		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	87.94	1.1	30.4	30.4	11.3	19.11	1.594		
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	87.94	1.1	30.4	30.4	10.9	19.55	1.557		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	87.94	1.1	30.4	30.4	10.4	20.00	1.522		
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	87.94	1.1	30.4	30.4	10.0	20.45	1.489 Level 3		
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	87.94	1.1	30.4	30.4	9.5	20.90	1.457 Level 3		
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	87.94	1.1	30.4	30.4	9.1	21.35	1.426 Level 3		
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	87.94	1.1	30.4	30.4	8.6	21.80	1.397 Level 3		
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	87.94	1.1	30.4	30.4	8.2	22.25	1.368 Level 3		
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	87.94	1.1	30.4	30.4	7.7	22.70	1.341 Level 3		

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 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle LC 11-122HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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	11.6	11.6	87.94	1.1	30.4	30.4	7.3	23.15	1.315	Level 3, CC, ES, SF	
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	132.07	1.1	30.4	31.3	7.7	23.59	1.326	Level 3	
5,400.0	5,399.8	5,399.8	5,399.8	12.0	12.0	139.46	1.1	30.4	35.8	11.8	23.99	1.492	Level 3	
5,500.0	5,499.1	5,499.1	5,499.1	12.2	12.2	148.81	1.1	30.4	45.2	20.8	24.33	1.857		
5,600.0	5,597.7	5,597.7	5,597.7	12.5	12.5	156.88	1.1	30.4	60.1	35.5	24.59	2.443		
5,700.0	5,695.3	5,702.1	5,701.8	12.7	12.7	167.31	-1.2	23.5	76.4	51.6	24.75	3.087		
5,800.0	5,791.6	5,804.4	5,801.7	13.0	12.9	-177.94	-8.1	2.9	93.0	68.1	24.86	3.740		
5,900.0	5,886.3	5,901.4	5,892.5	13.3	13.1	-162.28	-18.7	-28.8	115.9	90.8	25.13	4.614		
6,000.0	5,979.3	5,990.8	5,971.7	13.6	13.4	-148.50	-31.8	-68.2	149.3	123.7	25.66	5.820		
6,100.0	6,070.2	6,077.5	6,046.2	14.0	13.7	-138.71	-45.9	-110.3	192.4	166.1	26.36	7.301		
6,200.0	6,158.8	6,163.3	6,119.9	14.5	14.1	-132.71	-59.8	-152.0	241.3	214.2	27.09	8.906		
6,300.0	6,245.5	6,248.0	6,192.7	15.0	14.6	-129.69	-73.5	-193.1	293.4	265.4	27.96	10.492		
6,400.0	6,331.9	6,332.7	6,265.4	15.6	15.1	-127.97	-87.2	-234.2	345.9	317.0	28.93	11.958		
6,500.0	6,418.4	6,417.4	6,338.2	16.3	15.6	-126.69	-101.0	-275.4	398.6	368.7	29.93	13.316		
6,600.0	6,504.8	6,502.1	6,410.9	17.0	16.2	-125.71	-114.7	-316.5	451.4	420.5	30.99	14.567		
6,700.0	6,591.3	6,586.8	6,483.7	17.7	16.8	-124.94	-128.4	-357.6	504.3	472.2	32.10	15.713		
6,800.0	6,677.7	6,676.8	6,562.8	18.5	17.4	-124.79	-143.3	-397.5	557.0	523.9	33.15	16.803		
6,900.0	6,764.2	6,767.5	6,648.7	19.2	17.7	-126.58	-159.5	-421.3	608.8	574.8	33.96	17.925		
7,000.0	6,852.6	6,851.9	6,731.3	19.9	17.9	-153.70	-174.9	-426.9	662.0	628.2	33.72	19.630		
7,100.0	6,944.2	6,933.0	6,810.5	20.3	18.0	167.04	-189.6	-417.1	717.5	683.9	33.58	21.366		
7,200.0	7,034.4	7,013.8	6,886.1	20.6	18.1	133.04	-203.6	-392.9	772.2	738.2	34.00	22.714		
7,300.0	7,118.5	7,096.5	6,957.7	20.8	18.1	110.59	-216.8	-354.1	823.0	788.3	34.65	23.753		
7,400.0	7,192.3	7,182.7	7,023.5	20.8	18.1	96.54	-228.9	-299.8	867.3	832.1	35.23	24.618		
7,500.0	7,251.9	7,273.5	7,080.1	20.8	18.3	87.78	-239.2	-229.8	903.1	867.3	35.83	25.208		
7,600.0	7,294.3	7,369.0	7,123.2	20.7	18.8	82.59	-246.9	-145.1	928.4	891.6	36.81	25.224		
7,700.0	7,317.4	7,468.3	7,147.9	20.7	19.7	80.08	-251.1	-49.3	942.0	903.5	38.51	24.461		
7,800.0	7,321.4	7,568.9	7,152.4	20.9	20.9	79.69	-251.6	51.1	944.2	903.3	40.88	23.098		
7,900.0	7,321.4	7,668.9	7,152.4	22.2	22.4	79.69	-251.2	151.1	944.3	900.5	43.73	21.591		
8,000.0	7,321.4	7,768.9	7,152.4	23.9	24.1	79.69	-250.8	251.1	944.3	897.3	47.06	20.067		
8,100.0	7,321.4	7,868.9	7,152.4	25.8	26.0	79.69	-250.4	351.1	944.4	893.6	50.77	18.602		
8,200.0	7,321.4	7,968.9	7,152.4	27.9	28.1	79.69	-250.0	451.1	944.5	889.7	54.79	17.239		
8,300.0	7,321.4	8,068.9	7,152.4	30.0	30.3	79.69	-249.6	551.1	944.5	885.5	59.05	15.996		
8,400.0	7,321.4	8,168.9	7,152.4	32.3	32.6	79.69	-249.2	651.1	944.6	881.1	63.50	14.875		
8,500.0	7,321.4	8,268.9	7,152.4	34.6	34.9	79.69	-248.8	751.1	944.7	876.5	68.12	13.868		
8,600.0	7,321.4	8,368.9	7,152.4	37.0	37.3	79.69	-248.4	851.1	944.7	871.9	72.86	12.967		
8,700.0	7,321.4	8,468.9	7,152.4	39.5	39.8	79.70	-248.0	951.1	944.8	867.1	77.70	12.159		
8,800.0	7,321.4	8,568.9	7,152.4	42.0	42.3	79.70	-247.6	1,051.1	944.9	862.2	82.63	11.435		
8,900.0	7,321.4	8,668.9	7,152.4	44.5	44.9	79.70	-247.2	1,151.1	944.9	857.3	87.63	10.783		
9,000.0	7,321.4	8,768.9	7,152.4	47.1	47.5	79.70	-246.8	1,251.1	945.0	852.3	92.69	10.195		
9,100.0	7,321.4	8,868.9	7,152.4	49.6	50.1	79.70	-246.4	1,351.1	945.1	847.3	97.80	9.663		
9,200.0	7,321.4	8,968.9	7,152.4	52.2	52.7	79.70	-246.0	1,451.1	945.1	842.2	102.95	9.180		
9,300.0	7,321.4	9,068.9	7,152.4	54.9	55.3	79.70	-245.6	1,551.1	945.2	837.0	108.14	8.740		
9,400.0	7,321.4	9,168.9	7,152.4	57.5	58.0	79.70	-245.2	1,651.1	945.3	831.9	113.36	8.338		
9,500.0	7,321.4	9,268.9	7,152.4	60.2	60.6	79.70	-244.8	1,751.1	945.3	826.7	118.61	7.970		
9,600.0	7,321.4	9,368.9	7,152.4	62.8	63.3	79.70	-244.3	1,851.1	945.4	821.5	123.88	7.631		
9,700.0	7,321.4	9,468.9	7,152.4	65.5	66.0	79.70	-243.9	1,951.1	945.5	816.3	129.18	7.319		
9,800.0	7,321.4	9,568.9	7,152.4	68.2	68.7	79.70	-243.5	2,051.1	945.5	811.0	134.49	7.030		
9,900.0	7,321.4	9,668.9	7,152.4	70.9	71.4	79.70	-243.1	2,151.1	945.6	805.8	139.82	6.763		
10,000.0	7,321.4	9,768.9	7,152.4	73.6	74.1	79.71	-242.7	2,251.1	945.6	800.5	145.16	6.514		
10,100.0	7,321.4	9,868.9	7,152.4	76.3	76.9	79.71	-242.3	2,351.1	945.7	795.2	150.52	6.283		
10,200.0	7,321.4	9,968.9	7,152.4	79.0	79.6	79.71	-241.9	2,451.1	945.8	789.9	155.89	6.067		
10,300.0	7,321.4	10,068.9	7,152.4	81.8	82.3	79.71	-241.5	2,551.1	945.8	784.6	161.26	5.865		

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

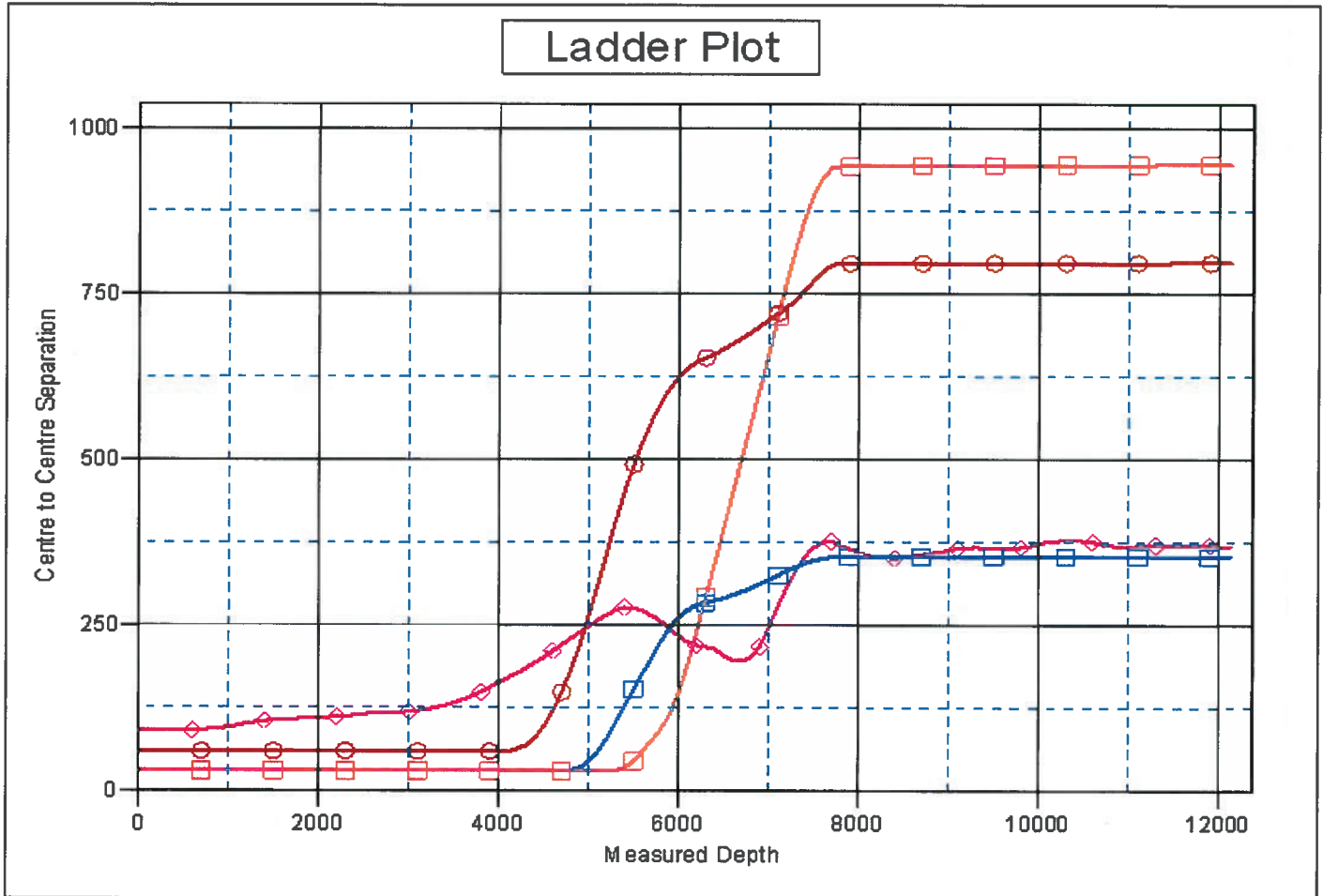
<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle IC 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle IC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-122HN - Wellbore #1 - Plan #1 (12-10-13)														Offset Site Error:	0.0ft
Survey Program: 0-MWD														Offset Well Error:	0.0ft
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			
10,400.0	7,321.4	10,168.9	7,152.4	84.5	85.0	79.71	-241.1	2,651.1	945.9	779.3	166.65	5.676			
10,500.0	7,321.4	10,268.9	7,152.4	87.2	87.8	79.71	-240.7	2,751.1	946.0	773.9	172.05	5.498			
10,600.0	7,321.4	10,368.9	7,152.4	90.0	90.5	79.71	-240.3	2,851.1	946.0	768.6	177.45	5.331			
10,700.0	7,321.4	10,468.9	7,152.4	92.7	93.3	79.71	-239.9	2,951.1	946.1	763.2	182.87	5.174			
10,800.0	7,321.4	10,568.9	7,152.4	95.5	96.0	79.71	-239.5	3,051.1	946.2	757.9	188.28	5.025			
10,900.0	7,321.4	10,668.9	7,152.4	98.2	98.8	79.71	-239.1	3,151.1	946.2	752.5	193.71	4.885			
11,000.0	7,321.4	10,768.9	7,152.4	101.0	101.5	79.71	-238.7	3,251.1	946.3	747.2	199.14	4.752			
11,100.0	7,321.4	10,868.9	7,152.4	103.7	104.3	79.71	-238.3	3,351.1	946.4	741.8	204.57	4.626			
11,200.0	7,321.4	10,968.9	7,152.4	106.5	107.1	79.71	-237.9	3,451.1	946.4	736.4	210.01	4.507			
11,300.0	7,321.4	11,068.9	7,152.4	109.2	109.8	79.71	-237.5	3,551.1	946.5	731.1	215.46	4.393			
11,400.0	7,321.4	11,168.9	7,152.4	112.0	112.6	79.72	-237.1	3,651.1	946.6	725.7	220.90	4.285			
11,500.0	7,321.4	11,268.9	7,152.4	114.8	115.4	79.72	-236.7	3,751.1	946.6	720.3	226.36	4.182			
11,600.0	7,321.4	11,368.9	7,152.4	117.5	118.1	79.72	-236.3	3,851.1	946.7	714.9	231.81	4.084			
11,700.0	7,321.4	11,468.9	7,152.4	120.3	120.9	79.72	-235.9	3,951.1	946.8	709.5	237.27	3.990			
11,800.0	7,321.4	11,568.9	7,152.4	123.1	123.7	79.72	-235.5	4,051.1	946.8	704.1	242.73	3.901			
11,900.0	7,321.4	11,668.9	7,152.4	125.8	126.5	79.72	-235.1	4,151.1	946.9	698.7	248.19	3.815			
12,000.0	7,321.4	11,768.9	7,152.4	128.6	129.2	79.72	-234.7	4,251.1	947.0	693.3	253.66	3.733			
12,100.0	7,321.4	11,868.9	7,152.4	131.4	131.3	79.72	-234.3	4,351.1	947.0	688.6	258.45	3.664			
12,109.1	7,321.4	11,878.1	7,152.4	131.6	131.5	79.72	-234.3	4,360.2	947.0	688.2	258.85	3.659			
12,131.8	7,321.4	11,891.5	7,152.4	132.3	131.7	79.72	-234.2	4,373.7	947.1	687.4	259.71	3.647			

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle LC 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle LC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4993.4ft (RKB - 16.5')  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °

Coordinates are relative to: Postle LC 11-042HC  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.34°



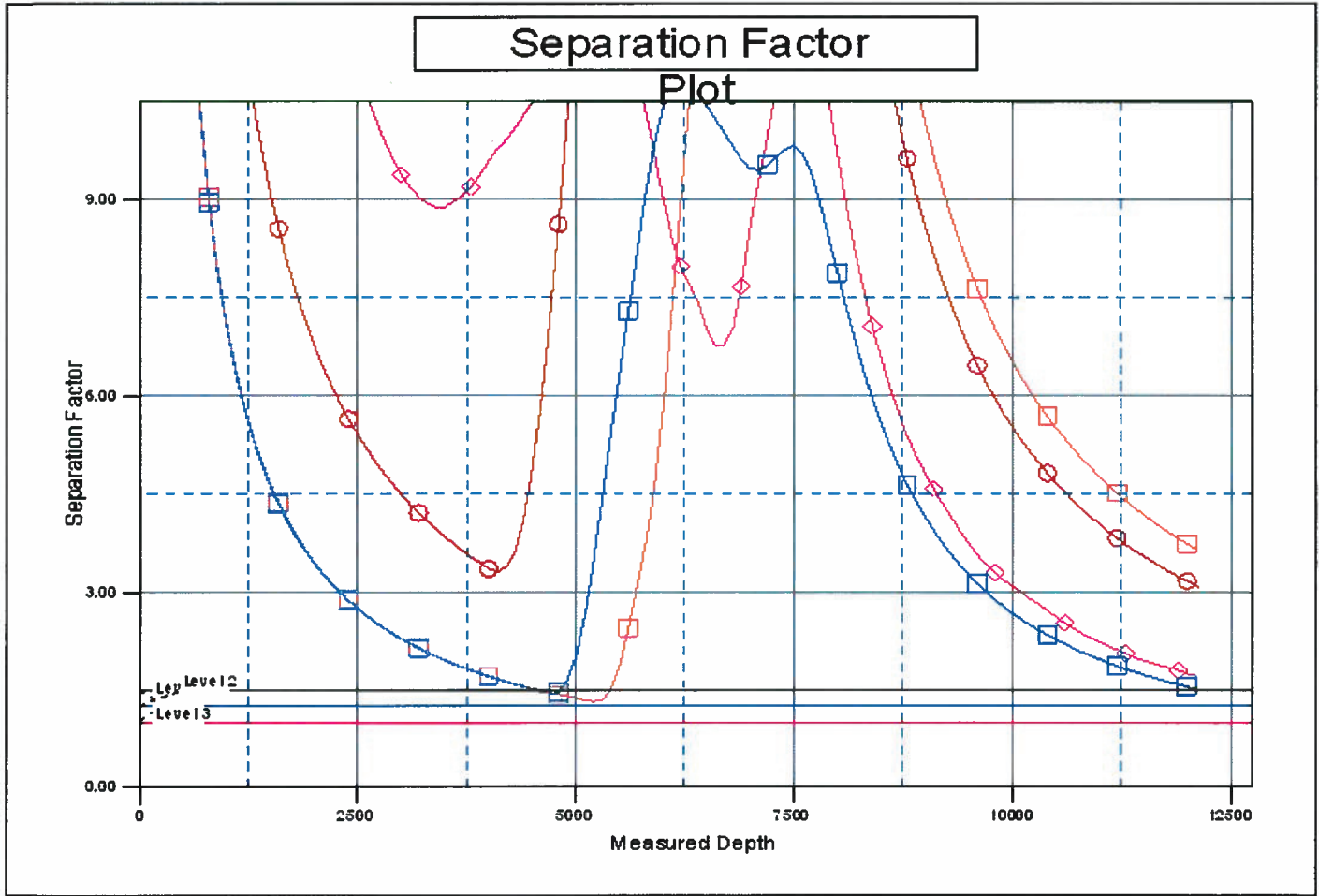
**LEGEND**

- 1-4HN, Wellbore #1, Wellbore #1 VD      ■ Postle LC 11-039HN, Wellbore #1, Plan #1 (12-10-13) VD
- 11-002HN, Wellbore #1, Plan #1 (12-10-13) VD      ● Postle LC 11-122HN, Wellbore #1, Plan #1 (12-10-13) VD

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Postle LC 11-042HC
<b>Project:</b>	SEC.11-T3N-R68W	<b>TVD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Reference Site:</b>	Postle West Pad Sec.11-T3N-R68W	<b>MD Reference:</b>	WELL @ 4993.4ft (RKB - 16.5')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Postle LC 11-042HC	<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 (12-10-13)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4993.4ft (RKB - 16.5')  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: Postle LC 11-042HC  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.34°



**LEGEND**

- 1-4HN, Wellbore #1, Wellbore #1 VD
- 11-002HN, Wellbore #1, Plan #1 (12-10-13) VD
- Postle LC 11-039HN, Wellbore #1, Plan #1 (12-10-13) VD
- Postle LC 11-122HN, Wellbore #1, Plan #1 (12-10-13) VD