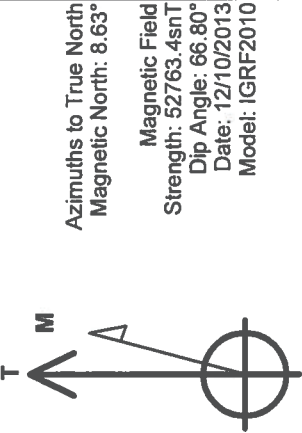


Great Western

Well Name: Postle IC 11-039HN
Surface Location: Postle West Pad Sec.11-T3N-R68W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4976.9
+N/-S Northing Easting Longitude Slot
0.0 0.0 1332147.37 3145635.50 40.243967 -104.978289
RKB - 16.5' WELL @ 4993.4ft (RKB - 16.5')

WELLBORE TARGET DETAILS

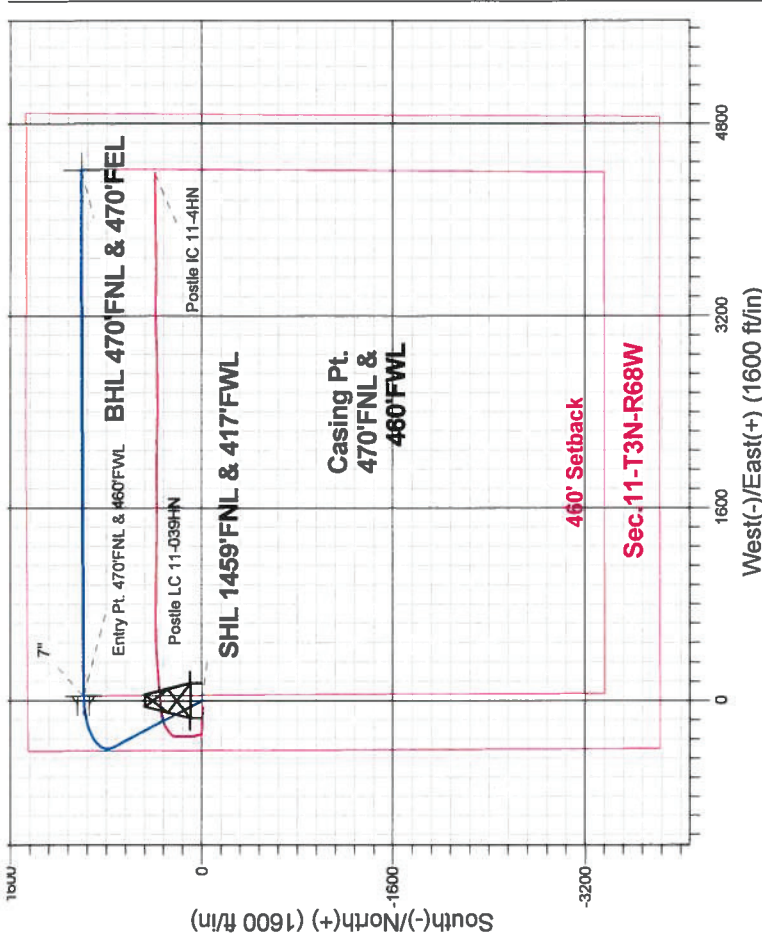
Name	TVD	+N/-S	+E/-W	Shape
SHL 1459'FNL & 417'FWL	1.0	0.0	0.0	Point
BHL 470'FNL & 470'FEL	7152.4	1010.2	4410.6	Point
Entry Pt. 470'FNL & 460'FWL	7152.4	988.7	38.0	Point



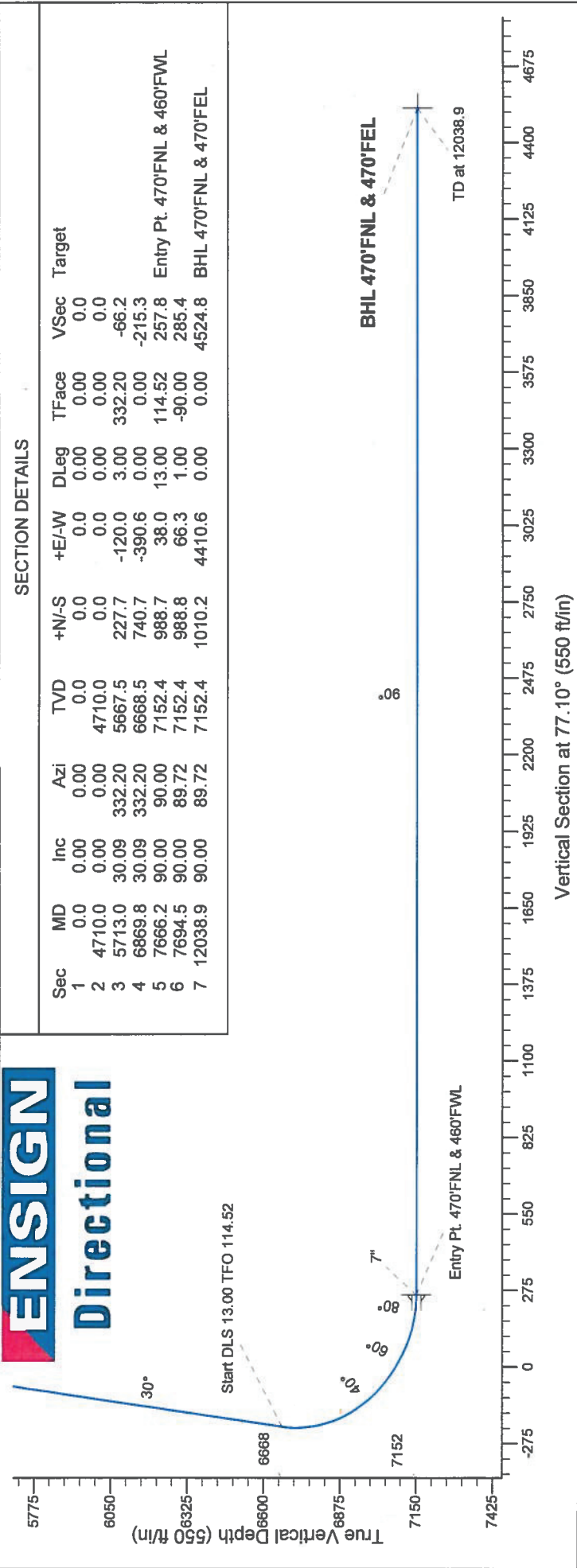
Postle West Pad Sec.11-T3N-R68W
Postle IC 11-039HN
Plan #1 (12-10-13)
8:36, December 12 2013

ANNOTATIONS

TVD MD Annotation
4710.0 4710.0 KOP - Start Build 3.00
6668.4 6869.8 Start DLS 13.00 TFO 114.52
7152.4 12038.9 TD at 12038.9



ENSIGN
Directional





Directional

Great Western

SEC.11-T3N-R68W

Postle West Pad Sec.11-T3N-R68W

Postle LC 11-039HN

Wellbore #1

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

Standard Planning Report

12 December, 2013

Database:	Landmark	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Company:	Great Western	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Project:	SEC.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site:	Postle West Pad Sec.11-T3N-R68W	North Reference:	True
Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-10-13)		

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

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

Well	Postle IC 11-039HN					
Well Position	+N-S	3.3 ft	Northing:	1,332,147.37 ft	Latitude:	40.243967
	+E-W	59.7 ft	Easting:	3,145,635.50 ft	Longitude:	-104.978289
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,976.9 ft	

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

Design	Plan #1 (12-10-13)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	77.10

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	
4,710.0	0.00	0.00	4,710.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,713.0	30.09	332.20	5,667.5	227.7	-120.0	3.00	3.00	0.00	332.20	
6,869.8	30.09	332.20	6,668.5	740.7	-390.6	0.00	0.00	0.00	0.00	
7,666.2	90.00	90.00	7,152.4	988.7	38.0	13.00	7.52	14.79	114.52	Entry Pt. 470'FNL &
7,694.5	90.00	89.72	7,152.4	988.8	66.3	1.00	0.00	-1.00	-90.00	
12,038.9	90.00	89.72	7,152.4	1,010.2	4,410.6	0.00	0.00	0.00	0.00	BHL 470'FNL & 470'

Database:	Landmark	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Company:	Great Western	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Project:	SEC.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site:	Postle West Pad Sec.11-T3N-R68W	North Reference:	True
Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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
SHL 1459'FNL & 417'FWL									
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
4,710.0	0.00	0.00	4,710.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 3.00									
4,800.0	2.70	332.20	4,800.0	1.9	-1.0	-0.5	3.00	3.00	0.00
4,900.0	5.70	332.20	4,899.7	8.4	-4.4	-2.4	3.00	3.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Company:	Great Western	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Project:	SEC.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site:	Postle West Pad Sec.11-T3N-R68W	North Reference:	True
Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
5,000.0	8.70	332.20	4,998.9	19.4	-10.2	-5.7	3.00	3.00	0.00
5,100.0	11.70	332.20	5,097.3	35.1	-18.5	-10.2	3.00	3.00	0.00
5,200.0	14.70	332.20	5,194.6	55.3	-29.2	-16.1	3.00	3.00	0.00
5,300.0	17.70	332.20	5,290.7	80.0	-42.2	-23.2	3.00	3.00	0.00
5,400.0	20.70	332.20	5,385.1	109.1	-57.5	-31.7	3.00	3.00	0.00
5,500.0	23.70	332.20	5,477.7	142.5	-75.1	-41.4	3.00	3.00	0.00
5,600.0	26.70	332.20	5,568.1	180.1	-95.0	-52.4	3.00	3.00	0.00
5,700.0	29.70	332.20	5,656.3	221.9	-117.0	-64.5	3.00	3.00	0.00
5,713.0	30.09	332.20	5,667.5	227.7	-120.0	-66.2	3.00	3.00	0.00
5,800.0	30.09	332.20	5,742.8	266.2	-140.4	-77.4	0.00	0.00	0.00
5,900.0	30.09	332.20	5,829.3	310.6	-163.8	-90.3	0.00	0.00	0.00
6,000.0	30.09	332.20	5,915.9	354.9	-187.2	-103.2	0.00	0.00	0.00
6,100.0	30.09	332.20	6,002.4	399.3	-210.5	-116.1	0.00	0.00	0.00
6,200.0	30.09	332.20	6,088.9	443.6	-233.9	-129.0	0.00	0.00	0.00
6,300.0	30.09	332.20	6,175.4	488.0	-257.3	-141.9	0.00	0.00	0.00
6,400.0	30.09	332.20	6,262.0	532.3	-280.7	-154.8	0.00	0.00	0.00
6,500.0	30.09	332.20	6,348.5	576.7	-304.1	-167.6	0.00	0.00	0.00
6,600.0	30.09	332.20	6,435.0	621.0	-327.5	-180.5	0.00	0.00	0.00
6,700.0	30.09	332.20	6,521.5	665.4	-350.8	-193.4	0.00	0.00	0.00
6,800.0	30.09	332.20	6,608.0	709.7	-374.2	-206.3	0.00	0.00	0.00
6,869.8	30.09	332.20	6,668.4	740.7	-390.5	-215.3	0.00	0.00	0.00
Start DLS 13.00 TFO 114.52									
6,900.0	28.66	339.65	6,694.8	754.2	-396.6	-218.2	12.99	-4.72	24.69
7,000.0	27.33	7.42	6,783.4	799.6	-402.0	-213.3	13.00	-1.33	27.77
7,100.0	31.38	32.83	6,870.9	844.5	-384.8	-186.6	13.00	4.05	25.41
7,200.0	39.17	51.01	6,952.7	886.4	-346.0	-139.4	13.00	7.78	18.18
7,300.0	48.92	63.46	7,024.7	923.2	-287.5	-74.1	13.00	9.75	12.45
7,400.0	59.65	72.53	7,083.0	953.2	-212.3	5.9	13.00	10.73	9.08
7,500.0	70.88	79.76	7,124.9	974.6	-124.3	96.5	13.00	11.23	7.23
7,600.0	82.35	86.05	7,148.0	986.5	-27.9	193.0	13.00	11.48	6.29
7,666.2	90.00	90.00	7,152.4	988.7	38.0	257.8	12.99	11.55	5.96
7" - Entry Pt. 470'FNL & 460'FWL									
7,694.5	90.00	89.72	7,152.4	988.8	66.3	285.4	0.99	0.02	-0.99
7,700.0	90.00	89.72	7,152.4	988.8	71.8	290.8	0.00	0.00	0.00
7,800.0	90.00	89.72	7,152.4	989.3	171.8	388.4	0.00	0.00	0.00
7,900.0	90.00	89.72	7,152.4	989.8	271.8	485.9	0.00	0.00	0.00
8,000.0	90.00	89.72	7,152.4	990.3	371.8	583.5	0.00	0.00	0.00
8,100.0	90.00	89.72	7,152.4	990.8	471.8	681.1	0.00	0.00	0.00
8,200.0	90.00	89.72	7,152.4	991.3	571.8	778.7	0.00	0.00	0.00
8,300.0	90.00	89.72	7,152.4	991.8	671.8	876.3	0.00	0.00	0.00
8,400.0	90.00	89.72	7,152.4	992.3	771.8	973.9	0.00	0.00	0.00
8,500.0	90.00	89.72	7,152.4	992.8	871.8	1,071.4	0.00	0.00	0.00
8,600.0	90.00	89.72	7,152.4	993.3	971.8	1,169.0	0.00	0.00	0.00
8,700.0	90.00	89.72	7,152.4	993.8	1,071.8	1,266.6	0.00	0.00	0.00
8,800.0	90.00	89.72	7,152.4	994.3	1,171.8	1,364.2	0.00	0.00	0.00
8,900.0	90.00	89.72	7,152.4	994.7	1,271.8	1,461.8	0.00	0.00	0.00
9,000.0	90.00	89.72	7,152.4	995.2	1,371.8	1,559.4	0.00	0.00	0.00
9,100.0	90.00	89.72	7,152.4	995.7	1,471.8	1,657.0	0.00	0.00	0.00
9,200.0	90.00	89.72	7,152.4	996.2	1,571.8	1,754.5	0.00	0.00	0.00
9,300.0	90.00	89.72	7,152.4	996.7	1,671.8	1,852.1	0.00	0.00	0.00
9,400.0	90.00	89.72	7,152.4	997.2	1,771.8	1,949.7	0.00	0.00	0.00
9,500.0	90.00	89.72	7,152.4	997.7	1,871.8	2,047.3	0.00	0.00	0.00
9,600.0	90.00	89.72	7,152.4	998.2	1,971.8	2,144.9	0.00	0.00	0.00
9,700.0	90.00	89.72	7,152.4	998.7	2,071.8	2,242.5	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Company:	Great Western	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Project:	SEC.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site:	Postle West Pad Sec.11-T3N-R68W	North Reference:	True
Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
9,800.0	90.00	89.72	7,152.4	999.2	2,171.8	2,340.0	0.00	0.00	0.00
9,900.0	90.00	89.72	7,152.4	999.7	2,271.8	2,437.6	0.00	0.00	0.00
10,000.0	90.00	89.72	7,152.4	1,000.2	2,371.8	2,535.2	0.00	0.00	0.00
10,100.0	90.00	89.72	7,152.4	1,000.7	2,471.8	2,632.8	0.00	0.00	0.00
10,200.0	90.00	89.72	7,152.4	1,001.2	2,571.8	2,730.4	0.00	0.00	0.00
10,300.0	90.00	89.72	7,152.4	1,001.7	2,671.8	2,828.0	0.00	0.00	0.00
10,400.0	90.00	89.72	7,152.4	1,002.2	2,771.8	2,925.6	0.00	0.00	0.00
10,500.0	90.00	89.72	7,152.4	1,002.6	2,871.8	3,023.1	0.00	0.00	0.00
10,600.0	90.00	89.72	7,152.4	1,003.1	2,971.8	3,120.7	0.00	0.00	0.00
10,700.0	90.00	89.72	7,152.4	1,003.6	3,071.8	3,218.3	0.00	0.00	0.00
10,800.0	90.00	89.72	7,152.4	1,004.1	3,171.8	3,315.9	0.00	0.00	0.00
10,900.0	90.00	89.72	7,152.4	1,004.6	3,271.8	3,413.5	0.00	0.00	0.00
11,000.0	90.00	89.72	7,152.4	1,005.1	3,371.8	3,511.1	0.00	0.00	0.00
11,100.0	90.00	89.72	7,152.4	1,005.6	3,471.8	3,608.6	0.00	0.00	0.00
11,200.0	90.00	89.72	7,152.4	1,006.1	3,571.8	3,706.2	0.00	0.00	0.00
11,300.0	90.00	89.72	7,152.4	1,006.6	3,671.8	3,803.8	0.00	0.00	0.00
11,400.0	90.00	89.72	7,152.4	1,007.1	3,771.8	3,901.4	0.00	0.00	0.00
11,500.0	90.00	89.72	7,152.4	1,007.6	3,871.8	3,999.0	0.00	0.00	0.00
11,600.0	90.00	89.72	7,152.4	1,008.1	3,971.8	4,096.6	0.00	0.00	0.00
11,700.0	90.00	89.72	7,152.4	1,008.6	4,071.8	4,194.2	0.00	0.00	0.00
11,800.0	90.00	89.72	7,152.4	1,009.1	4,171.8	4,291.7	0.00	0.00	0.00
11,900.0	90.00	89.72	7,152.4	1,009.6	4,271.8	4,389.3	0.00	0.00	0.00
12,000.0	90.00	89.72	7,152.4	1,010.1	4,371.8	4,486.9	0.00	0.00	0.00
12,038.9	90.00	89.72	7,152.4	1,010.2	4,410.6	4,524.8	0.00	0.00	0.00

BHL 470'FNL & 470'FEL

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,666.2	7,152.4	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
4,710.0	4,710.0	0.0	0.0	KOP - Start Build 3.00
6,869.8	6,668.4	740.7	-390.5	Start DLS 13.00 TFO 114.52
12,038.9	7,152.4	1,010.2	4,410.7	TD at 12038.9



Directional

Great Western

SEC.11-T3N-R68W

Postle West Pad Sec.11-T3N-R68W

Postle IC 11-039HN

Wellbore #1

Plan #1 (12-10-13)

Anticollision Report

12 December, 2013

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	12/11/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,038.9	Plan #1 (12-10-13) (Wellbore #1)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	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	59.8	59.8	10,000.000	CC
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	500.0	502.4	60.1	58.2	32.478	ES
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	12,038.9	11,715.0	618.1	358.9	2.384	SF
Postle IC 11-002HN - Wellbore #1 - Plan #1 (12-10-13)	4,000.0	4,000.0	29.4	11.6	1.655	CC, ES
Postle IC 11-002HN - Wellbore #1 - Plan #1 (12-10-13)	4,100.0	4,099.6	30.1	11.9	1.652	SF
Postle IC 11-042HC - 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)	4,700.0	4,700.0	60.6	39.7	2.899	CC, ES
Postle IC 11-122HN - Wellbore #1 - Plan #1 (12-10-13)	4,800.0	4,800.0	61.6	40.2	2.884	SF

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 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)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	2.6	2.6	0.0	0.0	-93.15	-3.3	-59.7	59.8	59.8	0.00	N/A	CC	
100.0	100.0	102.6	102.6	0.1	0.1	-93.22	-3.4	-59.8	59.9	59.6	0.23	262.639		
200.0	200.0	202.5	202.5	0.3	0.2	-93.42	-3.6	-59.8	60.0	59.4	0.57	106.089		
300.0	300.0	302.6	302.6	0.6	0.4	-93.73	-3.9	-59.9	60.0	59.1	0.97	61.624		
400.0	400.0	402.6	402.6	0.8	0.6	-94.10	-4.3	-59.8	60.0	58.6	1.41	42.500		
433.4	433.4	436.0	436.0	0.9	0.7	-94.30	-4.5	-59.8	60.0	58.4	1.56	38.499		
500.0	500.0	502.4	502.4	1.0	0.8	-94.74	-5.0	-59.9	60.1	58.2	1.85	32.478	ES	
600.0	600.0	602.0	602.0	1.2	1.1	-95.39	-5.7	-60.5	60.7	58.4	2.29	26.538		
700.0	700.0	702.0	702.0	1.5	1.3	-95.96	-6.4	-61.4	61.7	59.0	2.72	22.717		
800.0	800.0	802.0	802.0	1.7	1.5	-96.36	-7.0	-62.4	62.7	59.6	3.15	19.949		
900.0	900.0	901.7	901.6	1.9	1.7	-96.65	-7.4	-63.5	63.9	60.4	3.58	17.875		
1,000.0	1,000.0	1,001.2	1,001.1	2.1	1.9	-96.98	-8.0	-65.3	65.8	61.8	4.02	16.381		
1,100.0	1,100.0	1,100.9	1,100.8	2.4	2.1	-97.21	-8.6	-67.7	68.3	63.8	4.46	15.313		
1,200.0	1,200.0	1,201.0	1,200.9	2.6	2.3	-96.90	-8.5	-70.4	70.9	66.0	4.89	14.495		
1,300.0	1,300.0	1,301.3	1,301.2	2.8	2.5	-96.42	-8.2	-72.6	73.0	67.7	5.32	13.737		
1,400.0	1,400.0	1,401.4	1,401.3	3.0	2.7	-95.94	-7.7	-74.5	74.9	69.1	5.74	13.033		
1,500.0	1,500.0	1,502.1	1,502.0	3.3	2.9	-95.11	-6.8	-76.0	76.3	70.1	6.18	12.350		
1,600.0	1,600.0	1,602.3	1,602.1	3.5	3.1	-93.91	-5.2	-76.7	76.9	70.3	6.61	11.641		
1,700.0	1,700.0	1,702.4	1,702.2	3.7	3.3	-93.19	-4.3	-77.4	77.5	70.5	7.04	11.009		
1,800.0	1,800.0	1,802.1	1,801.9	3.9	3.6	-92.66	-3.6	-78.1	78.2	70.7	7.48	10.481		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
1,900.0	1,900.0	1,901.9	1,901.6	4.2	3.8	-92.03	-2.8	-79.2	79.3	71.4	7.91	10.021		
2,000.0	2,000.0	2,002.5	2,002.3	4.4	4.0	-91.55	-2.2	-80.0	80.0	71.7	8.35	9.589		
2,100.0	2,100.0	2,102.4	2,102.2	4.6	4.2	-90.90	-1.3	-80.4	80.4	71.6	8.78	9.161		
2,200.0	2,200.0	2,202.1	2,201.8	4.8	4.4	-90.14	-0.2	-81.2	81.2	71.9	9.21	8.809		
2,300.0	2,300.0	2,302.0	2,301.7	5.1	4.6	-89.63	0.5	-82.1	82.1	72.4	9.65	8.506		
2,400.0	2,400.0	2,401.3	2,401.0	5.3	4.8	-89.79	0.3	-83.7	83.7	73.6	10.08	8.299		
2,500.0	2,500.0	2,501.8	2,501.6	5.5	5.0	-90.23	-0.3	-85.2	85.2	74.7	10.52	8.103		
2,600.0	2,600.0	2,602.3	2,602.0	5.7	5.2	-90.57	-0.9	-86.1	86.1	75.2	10.95	7.863		
2,700.0	2,700.0	2,702.5	2,702.2	6.0	5.4	-90.92	-1.4	-86.6	86.6	75.3	11.39	7.609		
2,800.0	2,800.0	2,802.4	2,802.1	6.2	5.7	-91.39	-2.1	-87.1	87.1	75.3	11.82	7.370		
2,900.0	2,900.0	2,902.2	2,901.9	6.4	5.9	-91.93	-3.0	-87.8	87.8	75.5	12.26	7.163		
3,000.0	3,000.0	3,001.7	3,001.4	6.6	6.1	-92.51	-3.9	-88.8	88.9	76.2	12.69	7.001		
3,100.0	3,100.0	3,101.3	3,101.0	6.9	6.3	-92.83	-4.5	-90.4	90.5	77.4	13.13	6.895		
3,200.0	3,200.0	3,201.0	3,200.6	7.1	6.5	-93.10	-5.0	-92.3	92.5	78.9	13.57	6.817		
3,300.0	3,300.0	3,300.2	3,299.9	7.3	6.7	-93.56	-5.9	-94.7	94.9	80.9	14.00	6.778		
3,400.0	3,400.0	3,399.7	3,399.3	7.5	6.9	-93.77	-6.4	-97.8	98.1	83.6	14.44	6.793		
3,500.0	3,500.0	3,498.2	3,497.7	7.8	7.1	-93.87	-6.9	-101.7	102.0	87.2	14.88	6.858		
3,600.0	3,600.0	3,597.7	3,597.1	8.0	7.4	-93.53	-6.6	-106.8	107.2	91.9	15.31	6.998		
3,700.0	3,700.0	3,697.0	3,696.3	8.2	7.6	-93.09	-6.1	-112.2	112.5	96.8	15.75	7.144		
3,800.0	3,800.0	3,795.5	3,794.6	8.4	7.8	-92.70	-5.6	-118.3	118.7	102.5	16.19	7.330		
3,900.0	3,900.0	3,894.1	3,892.9	8.7	8.0	-92.30	-5.0	-125.5	125.9	109.3	16.63	7.572		
4,000.0	4,000.0	3,993.7	3,992.2	8.9	8.3	-91.91	-4.4	-133.2	133.7	116.7	17.07	7.833		
4,100.0	4,100.0	4,094.8	4,093.0	9.1	8.5	-91.64	-4.0	-140.7	141.1	123.5	17.51	8.056		
4,200.0	4,200.0	4,194.0	4,191.9	9.3	8.7	-91.57	-4.1	-147.6	148.0	130.1	17.95	8.248		
4,300.0	4,300.0	4,292.4	4,290.1	9.6	8.9	-91.60	-4.3	-155.1	155.7	137.3	18.39	8.465		
4,400.0	4,400.0	4,391.3	4,388.6	9.8	9.2	-91.62	-4.6	-163.3	164.0	145.2	18.84	8.706		
4,500.0	4,500.0	4,490.7	4,487.6	10.0	9.4	-91.64	-4.9	-171.8	172.6	153.3	19.28	8.948		
4,600.0	4,600.0	4,588.9	4,585.5	10.2	9.7	-91.61	-5.1	-180.8	181.7	161.9	19.73	9.209		
4,700.0	4,700.0	4,688.2	4,684.3	10.5	9.9	-91.47	-4.9	-190.2	191.2	171.0	20.17	9.477		
4,800.0	4,800.0	4,787.9	4,783.6	10.7	10.1	-91.30	-4.5	-199.8	199.8	179.3	20.55	9.722		
4,900.0	4,899.7	4,887.9	4,883.1	10.9	10.4	-91.30	-4.1	-209.2	206.1	185.1	20.97	9.827		
5,000.0	4,998.9	4,988.0	4,982.7	11.1	10.6	-91.02	-3.6	-218.4	210.3	188.9	21.39	9.832		
5,100.0	5,097.3	5,087.6	5,082.0	11.4	10.8	-91.99	-3.1	-227.2	212.9	191.1	21.83	9.755		
5,200.0	5,194.6	5,186.3	5,180.3	11.6	11.1	-92.12	-2.6	-235.6	215.1	192.8	22.30	9.646		
5,300.0	5,290.7	5,284.2	5,277.9	11.9	11.3	-93.38	-2.0	-243.6	218.0	195.2	22.81	9.554		
5,400.0	5,385.1	5,381.1	5,374.5	12.2	11.5	-90.60	-1.3	-250.8	223.0	199.7	23.37	9.541		
5,500.0	5,477.7	5,476.2	5,469.4	12.5	11.8	-98.42	-0.7	-257.4	232.0	208.0	23.94	9.689		
5,600.0	5,568.1	5,568.5	5,561.6	12.9	12.0	-106.42	-0.4	-262.8	246.7	222.2	24.47	10.081		
5,700.0	5,656.3	5,658.4	5,651.2	13.4	12.2	-113.98	0.0	-268.1	268.6	243.7	24.90	10.784		
5,800.0	5,742.8	5,748.3	5,741.0	14.0	12.4	-121.40	0.7	-273.4	297.0	271.7	25.31	11.734		
5,900.0	5,829.3	5,841.0	5,833.6	14.6	12.6	-127.97	2.2	-277.7	328.8	303.1	25.69	12.797		
6,000.0	5,915.9	5,935.2	5,927.7	15.2	12.8	-133.69	4.4	-280.6	362.9	336.9	26.05	13.932		
6,100.0	6,002.4	6,033.6	6,026.0	15.9	13.0	-138.80	9.2	-282.2	397.2	370.8	26.39	15.052		
6,200.0	6,088.9	6,155.9	6,147.8	16.6	13.3	-143.77	18.7	-285.4	431.7	405.0	26.73	16.153		
6,300.0	6,175.4	6,270.5	6,260.7	17.4	13.5	-147.18	37.5	-291.4	459.3	432.1	27.16	16.913		
6,400.0	6,262.0	6,454.3	6,437.0	18.2	14.0	-151.75	87.6	-300.6	477.4	449.8	27.59	17.307		
6,500.0	6,348.5	6,557.7	6,532.6	19.0	14.3	-154.87	127.1	-298.9	484.9	457.0	27.90	17.378		
6,600.0	6,435.0	6,659.2	6,627.0	19.8	14.6	-157.60	164.3	-299.1	495.2	467.0	28.24	17.537		
6,700.0	6,521.5	6,750.2	6,710.9	20.6	14.9	-159.72	199.3	-301.5	504.5	475.9	28.61	17.634		
6,800.0	6,608.0	6,831.8	6,786.7	21.5	15.1	-162.15	229.0	-298.0	517.6	488.7	28.89	17.917		
6,900.0	6,694.8	6,896.4	6,845.7	22.3	15.3	-172.36	251.3	-284.4	536.2	507.1	29.06	18.453		
7,000.0	6,783.4	6,972.1	6,911.9	23.0	15.5	-157.19	275.6	-257.0	558.1	528.6	29.54	18.894		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	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	6,870.9	7,055.0	6,977.9	23.4	15.6	129.84	302.5	-214.8	577.5	547.1	30.40	18.996		
7,200.0	6,952.7	7,102.0	7,011.8	23.7	15.7	111.73	315.8	-185.2	595.5	564.3	31.21	19.082		
7,300.0	7,024.7	7,159.8	7,049.5	23.9	15.8	100.15	329.1	-143.6	611.8	579.8	31.94	19.155		
7,400.0	7,083.0	7,219.6	7,082.7	24.0	15.9	93.13	340.5	-95.1	623.8	591.2	32.63	19.119		
7,500.0	7,124.9	7,273.4	7,106.9	24.0	16.1	89.31	347.3	-47.6	632.3	598.7	33.58	18.833		
7,600.0	7,148.0	7,341.0	7,129.0	24.0	16.5	88.07	352.1	16.0	636.3	601.3	35.01	18.172		
7,700.0	7,152.4	7,440.3	7,141.6	23.9	17.5	88.78	356.9	114.1	633.5	596.2	37.26	17.004		
7,800.0	7,152.4	7,543.8	7,140.5	23.9	19.0	88.67	364.2	217.4	627.0	586.9	40.08	15.644		
7,900.0	7,152.4	7,654.6	7,135.5	24.4	20.9	88.19	373.8	327.6	618.8	575.3	43.55	14.210		
8,000.0	7,152.4	7,739.7	7,132.6	25.9	22.5	87.90	380.7	412.3	611.3	564.3	47.00	13.007		
8,100.0	7,152.4	7,822.0	7,130.9	27.9	24.2	87.73	384.7	494.5	607.0	556.3	50.70	11.973		
8,200.0	7,152.4	7,912.7	7,128.2	30.0	26.2	87.46	386.3	585.1	605.7	550.9	54.80	11.052		
8,300.0	7,152.4	8,006.1	7,127.4	32.2	28.3	87.38	388.6	678.5	603.9	544.7	59.18	10.204		
8,317.5	7,152.4	8,019.8	7,127.3	32.6	28.6	87.37	388.7	692.3	603.8	543.9	59.91	10.079		
8,400.0	7,152.4	8,092.6	7,126.7	34.5	30.4	87.32	388.2	765.1	604.8	541.3	63.56	9.515		
8,500.0	7,152.4	8,166.1	7,127.5	36.9	32.6	87.40	386.9	858.6	606.6	538.4	68.25	8.889		
8,600.0	7,152.4	8,273.1	7,129.1	39.3	34.7	87.57	383.8	945.4	610.6	537.7	72.88	8.378		
8,700.0	7,152.4	8,394.9	7,128.3	41.8	37.8	87.51	380.6	1,067.2	613.7	535.3	78.46	7.822		
8,800.0	7,152.4	8,486.0	7,127.8	44.3	40.1	87.46	379.6	1,158.3	615.4	532.1	83.33	7.385		
8,900.0	7,152.4	8,582.4	7,127.9	46.9	42.6	87.49	377.0	1,254.6	618.5	530.1	88.40	6.997		
9,000.0	7,152.4	8,699.4	7,128.2	49.4	45.6	87.34	375.1	1,371.6	620.8	526.8	94.05	6.601		
9,100.0	7,152.4	8,802.7	7,123.9	52.0	48.4	87.13	376.1	1,474.9	620.4	521.1	99.36	6.245		
9,100.0	7,152.4	8,802.7	7,123.9	52.0	48.4	87.13	376.1	1,474.9	620.4	521.1	99.36	6.245		
9,200.0	7,152.4	8,897.1	7,122.7	54.7	50.9	87.02	376.0	1,569.3	621.1	516.6	104.49	5.944		
9,300.0	7,152.4	9,011.0	7,123.0	57.3	53.9	87.04	377.5	1,683.1	620.2	510.0	110.18	5.629		
9,400.0	7,152.4	9,107.3	7,123.3	59.9	56.5	87.06	379.2	1,779.4	618.9	503.5	115.43	5.362		
9,500.0	7,152.4	9,203.0	7,123.4	62.6	59.1	87.07	380.2	1,875.1	618.3	497.6	120.68	5.123		
9,502.7	7,152.4	9,205.4	7,123.4	62.7	59.1	87.07	380.2	1,877.5	618.3	497.5	120.82	5.117		
9,600.0	7,152.4	9,289.0	7,124.4	65.3	61.4	87.17	379.8	1,961.1	619.2	493.5	125.71	4.926		
9,700.0	7,152.4	9,391.6	7,123.9	68.0	64.2	87.13	378.2	2,063.7	621.3	490.1	131.19	4.736		
9,800.0	7,152.4	9,484.0	7,123.9	70.7	66.7	87.14	376.4	2,156.1	623.7	487.3	136.41	4.572		
9,900.0	7,152.4	9,579.0	7,122.7	73.4	69.3	87.04	373.6	2,251.0	627.2	485.5	141.70	4.426		
10,000.0	7,152.4	9,687.1	7,119.5	76.1	72.2	86.77	371.2	2,359.0	630.2	482.8	147.32	4.277		
10,100.0	7,152.4	9,803.5	7,119.2	78.8	75.4	86.75	370.8	2,475.5	630.9	477.7	153.23	4.117		
10,111.4	7,152.4	9,814.3	7,119.1	79.1	75.7	86.74	370.9	2,486.3	630.9	477.0	153.83	4.101		
10,200.0	7,152.4	9,896.4	7,118.0	81.5	77.9	86.64	371.0	2,568.4	631.3	472.8	158.48	3.984		
10,300.0	7,152.4	10,005.8	7,117.6	84.2	80.9	86.61	371.2	2,677.7	631.6	467.4	164.21	3.847		
10,400.0	7,152.4	10,106.0	7,119.3	86.9	83.7	86.76	371.9	2,777.9	631.3	461.6	169.73	3.720		
10,500.0	7,152.4	10,230.0	7,119.1	89.7	87.1	86.72	375.2	2,901.8	629.2	453.3	175.86	3.578		
10,600.0	7,152.4	10,322.3	7,118.8	92.4	89.6	86.68	379.5	2,994.0	625.1	444.0	181.12	3.451		
10,700.0	7,152.4	10,420.4	7,118.9	95.2	92.3	86.68	382.4	3,092.1	622.6	436.1	186.57	3.337		
10,800.0	7,152.4	10,511.0	7,118.0	97.9	94.8	86.58	384.9	3,182.7	620.4	428.6	191.79	3.235		
10,857.9	7,152.4	10,561.0	7,117.8	99.5	96.2	86.56	385.5	3,232.7	620.0	425.3	194.76	3.183		
10,900.0	7,152.4	10,597.5	7,117.9	100.7	97.2	86.57	385.5	3,269.2	620.2	423.3	196.93	3.149		
11,000.0	7,152.4	10,695.7	7,117.8	103.4	99.9	86.57	384.9	3,367.3	621.4	419.0	202.40	3.070		
11,100.0	7,152.4	10,796.7	7,118.0	106.2	102.7	86.60	383.7	3,468.4	623.0	415.0	207.96	2.996		
11,200.0	7,152.4	10,897.0	7,118.7	108.9	105.5	86.66	383.1	3,568.6	624.1	410.6	213.51	2.923		
11,300.0	7,152.4	11,006.0	7,120.3	111.7	108.5	86.81	383.1	3,677.6	624.5	405.1	219.33	2.847		
11,400.0	7,152.4	11,109.9	7,120.7	114.4	111.4	86.85	384.7	3,781.5	623.4	398.4	224.98	2.771		
11,500.0	7,152.4	11,214.6	7,118.1	117.2	114.3	86.60	386.6	3,886.1	622.3	391.7	230.57	2.699		
11,600.0	7,152.4	11,307.8	7,116.2	120.0	116.9	86.42	388.6	3,979.3	620.8	384.9	235.87	2.632		
11,700.0	7,152.4	11,407.6	7,113.8	122.7	119.7	86.19	389.6	4,079.1	620.4	379.1	241.33	2.571		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
11,800.0	7,152.4	11,513.0	7,112.9	125.5	122.6	86.11	391.0	4,184.4	619.6	372.6	246.99	2.509		
11,900.0	7,152.4	11,606.5	7,114.6	128.3	125.2	86.26	392.4	4,277.9	618.5	366.1	252.40	2.450		
12,000.0	7,152.4	11,710.6	7,115.1	131.0	128.1	86.30	393.8	4,382.0	617.6	359.6	258.07	2.393		
12,011.6	7,152.4	11,715.0	7,115.1	131.4	128.2	86.29	393.9	4,386.4	617.5	359.0	258.52	2.389		
12,038.9	7,152.4	11,715.0	7,115.1	132.1	128.2	86.29	393.9	4,386.4	618.1	358.9	259.27	2.384 SF		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-002HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (")	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-94.26	-2.2	-29.3	29.4					
100.0	100.0	100.0	100.0	0.1	0.1	-94.26	-2.2	-29.3	29.4	29.2	0.22	130.774		
200.0	200.0	200.0	200.0	0.3	0.3	-94.26	-2.2	-29.3	29.4	28.7	0.67	43.591		
300.0	300.0	300.0	300.0	0.6	0.6	-94.26	-2.2	-29.3	29.4	28.3	1.12	26.155		
400.0	400.0	400.0	400.0	0.8	0.8	-94.26	-2.2	-29.3	29.4	27.8	1.57	18.682		
500.0	500.0	500.0	500.0	1.0	1.0	-94.26	-2.2	-29.3	29.4	27.4	2.02	14.530		
600.0	600.0	600.0	600.0	1.2	1.2	-94.26	-2.2	-29.3	29.4	26.9	2.47	11.889		
700.0	700.0	700.0	700.0	1.5	1.5	-94.26	-2.2	-29.3	29.4	26.5	2.92	10.060		
800.0	800.0	800.0	800.0	1.7	1.7	-94.26	-2.2	-29.3	29.4	26.0	3.37	8.718		
900.0	900.0	900.0	900.0	1.9	1.9	-94.26	-2.2	-29.3	29.4	25.6	3.82	7.693		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-94.26	-2.2	-29.3	29.4	25.1	4.27	6.883		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-94.26	-2.2	-29.3	29.4	24.7	4.72	6.227		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-94.26	-2.2	-29.3	29.4	24.2	5.17	5.686		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-94.26	-2.2	-29.3	29.4	23.8	5.62	5.231		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-94.26	-2.2	-29.3	29.4	23.3	6.07	4.843		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-94.26	-2.2	-29.3	29.4	22.9	6.52	4.509		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-94.26	-2.2	-29.3	29.4	22.4	6.97	4.219		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-94.26	-2.2	-29.3	29.4	22.0	7.42	3.963		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-94.26	-2.2	-29.3	29.4	21.5	7.87	3.736		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-94.26	-2.2	-29.3	29.4	21.1	8.32	3.534		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-94.26	-2.2	-29.3	29.4	20.6	8.77	3.353		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-94.26	-2.2	-29.3	29.4	20.2	9.22	3.190		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-94.26	-2.2	-29.3	29.4	19.7	9.66	3.041		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-94.26	-2.2	-29.3	29.4	19.3	10.11	2.906		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-94.26	-2.2	-29.3	29.4	18.8	10.56	2.782		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-94.26	-2.2	-29.3	29.4	18.4	11.01	2.669		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-94.26	-2.2	-29.3	29.4	17.9	11.46	2.564		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-94.26	-2.2	-29.3	29.4	17.5	11.91	2.467		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-94.26	-2.2	-29.3	29.4	17.0	12.36	2.378		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-94.26	-2.2	-29.3	29.4	16.6	12.81	2.294		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-94.26	-2.2	-29.3	29.4	16.1	13.26	2.217		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-94.26	-2.2	-29.3	29.4	15.7	13.71	2.144		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-94.26	-2.2	-29.3	29.4	15.2	14.16	2.076		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-94.26	-2.2	-29.3	29.4	14.8	14.61	2.012		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-94.26	-2.2	-29.3	29.4	14.3	15.06	1.952		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-94.26	-2.2	-29.3	29.4	13.9	15.51	1.895		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-94.26	-2.2	-29.3	29.4	13.4	15.96	1.842		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-94.26	-2.2	-29.3	29.4	13.0	16.41	1.791		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-94.26	-2.2	-29.3	29.4	12.5	16.86	1.744		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-94.26	-2.2	-29.3	29.4	12.1	17.31	1.698		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-94.26	-2.2	-29.3	29.4	11.6	17.76	1.655 CC, ES		
4,100.0	4,100.0	4,099.6	4,099.5	9.1	9.1	-89.43	0.3	-30.1	30.1	11.9	18.20	1.652 SF		
4,200.0	4,200.0	4,198.6	4,198.3	9.3	9.3	-76.62	7.7	-32.3	33.3	14.6	18.65	1.784		
4,300.0	4,300.0	4,296.6	4,295.4	9.6	9.5	-61.19	19.8	-36.0	41.3	22.3	19.09	2.165		
4,400.0	4,400.0	4,393.0	4,390.2	9.8	9.8	-48.45	36.4	-41.0	55.7	36.2	19.54	2.851		
4,500.0	4,500.0	4,487.5	4,482.2	10.0	10.0	-39.69	57.0	-47.3	76.2	56.2	19.98	3.814		
4,600.0	4,600.0	4,579.5	4,570.7	10.2	10.3	-33.94	81.3	-54.7	102.3	81.9	20.42	5.010		
4,700.0	4,700.0	4,668.9	4,655.3	10.5	10.5	-30.11	108.7	-63.0	133.4	112.6	20.85	6.398		
4,800.0	4,800.0	4,756.0	4,736.4	10.7	10.8	0.34	139.1	-72.3	167.2	146.0	21.23	7.874		
4,900.0	4,899.7	4,841.9	4,814.9	10.9	11.2	2.28	172.5	-82.4	200.5	179.0	21.59	9.288		
5,000.0	4,998.9	4,926.6	4,890.7	11.1	11.6	3.81	208.7	-93.4	233.3	211.4	21.91	10.652		
5,100.0	5,097.3	5,011.8	4,965.1	11.4	12.0	5.12	248.2	-105.5	265.4	243.3	22.18	11.966		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 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	5,194.6	5,107.3	5,047.9	11.6	12.6	6.37	293.9	-119.4	294.3	271.8	22.44	13.114		
5,300.0	5,290.7	5,204.2	5,131.8	11.9	13.2	7.51	340.2	-133.4	318.2	295.6	22.67	14.035		
5,400.0	5,385.1	5,302.1	5,216.7	12.2	13.8	8.62	387.0	-147.7	337.2	314.4	22.89	14.736		
5,500.0	5,477.7	5,400.9	5,302.2	12.5	14.5	9.77	434.2	-162.0	351.3	328.2	23.08	15.220		
5,600.0	5,568.1	5,500.1	5,388.2	12.9	15.3	10.99	481.6	-176.4	360.4	337.1	23.27	15.489		
5,700.0	5,656.3	5,599.6	5,474.4	13.4	16.0	12.35	529.1	-190.9	364.6	341.1	23.46	15.540		
5,800.0	5,742.8	5,699.2	5,560.7	14.0	16.8	13.81	576.7	-205.4	365.8	341.7	24.05	15.206		
5,900.0	5,829.3	5,798.7	5,646.9	14.6	17.6	15.27	624.3	-219.8	367.2	342.4	24.75	14.836		
6,000.0	5,915.9	5,898.3	5,733.2	15.2	18.5	16.72	671.8	-234.3	368.8	343.3	25.49	14.468		
6,100.0	6,002.4	5,997.8	5,819.4	15.9	19.3	18.16	719.4	-248.8	370.7	344.4	26.29	14.103		
6,200.0	6,088.9	6,097.4	5,905.6	16.6	20.1	19.58	767.0	-263.2	372.8	345.7	27.13	13.741		
6,300.0	6,175.4	6,196.9	5,991.9	17.4	21.0	20.98	814.6	-277.7	375.2	347.1	28.04	13.381		
6,400.0	6,262.0	6,296.5	6,078.1	18.2	21.9	22.36	862.1	-292.2	377.7	348.7	29.00	13.026		
6,500.0	6,348.5	6,396.0	6,164.4	19.0	22.8	23.73	909.7	-306.6	380.5	350.5	30.02	12.675		
6,600.0	6,435.0	6,495.6	6,250.6	19.8	23.7	25.07	957.3	-321.1	383.5	352.4	31.10	12.330		
6,700.0	6,521.5	6,595.1	6,336.9	20.6	24.6	26.40	1,004.8	-335.6	386.7	354.5	32.25	11.992		
6,800.0	6,608.0	6,694.7	6,423.1	21.5	25.5	27.70	1,052.4	-350.0	390.1	356.7	33.45	11.663		
6,900.0	6,694.8	6,794.3	6,509.4	22.3	26.4	22.46	1,100.0	-364.5	393.7	359.0	34.65	11.360		
7,000.0	6,783.4	6,893.6	6,595.5	23.0	27.3	-3.19	1,147.5	-378.9	396.1	361.0	35.02	11.309		
7,100.0	6,870.9	6,988.3	6,677.5	23.4	28.2	-29.40	1,192.7	-392.7	398.4	363.7	34.76	11.462		
7,200.0	6,952.7	7,080.3	6,757.5	23.7	29.0	-49.85	1,236.8	-402.9	405.2	370.5	34.70	11.678		
7,300.0	7,024.7	7,185.7	6,849.1	23.9	29.7	-64.59	1,287.5	-393.1	417.9	382.8	35.14	11.891		
7,400.0	7,083.0	7,310.5	6,951.1	24.0	30.3	-75.54	1,344.1	-349.9	434.9	399.0	35.91	12.111		
7,500.0	7,124.9	7,462.7	7,054.9	24.0	30.8	-83.77	1,401.9	-256.0	452.6	415.7	36.90	12.264		
7,600.0	7,148.0	7,646.8	7,134.1	24.0	31.1	-88.92	1,446.4	-97.5	465.4	426.8	38.63	12.047		
7,700.0	7,152.4	7,816.0	7,152.4	23.9	31.1	-90.00	1,457.4	69.5	468.6	427.2	41.40	11.319		
7,800.0	7,152.4	7,916.0	7,152.4	23.9	31.1	-90.00	1,457.9	169.5	468.6	424.5	44.06	10.634		
7,900.0	7,152.4	8,016.0	7,152.4	24.4	31.3	-90.00	1,458.4	269.5	468.6	421.3	47.25	9.917		
8,000.0	7,152.4	8,116.0	7,152.4	25.9	31.7	-90.00	1,458.9	369.5	468.6	417.7	50.86	9.213		
8,100.0	7,152.4	8,216.0	7,152.4	27.9	32.3	-90.00	1,459.3	469.5	468.6	413.8	54.80	8.550		
8,200.0	7,152.4	8,316.0	7,152.4	30.0	33.4	-90.00	1,459.8	569.5	468.6	409.5	59.02	7.940		
8,300.0	7,152.4	8,416.0	7,152.4	32.2	34.9	-90.00	1,460.3	669.5	468.6	405.1	63.45	7.385		
8,400.0	7,152.4	8,516.0	7,152.4	34.5	36.7	-90.00	1,460.8	769.5	468.6	400.5	68.05	6.885		
8,500.0	7,152.4	8,616.0	7,152.4	36.9	38.7	-90.00	1,461.3	869.5	468.5	395.8	72.80	6.436		
8,600.0	7,152.4	8,716.0	7,152.4	39.3	40.9	-90.00	1,461.8	969.5	468.5	390.9	77.66	6.033		
8,700.0	7,152.4	8,816.0	7,152.4	41.8	43.2	-90.00	1,462.3	1,069.5	468.5	385.9	82.62	5.671		
8,800.0	7,152.4	8,916.0	7,152.4	44.3	45.6	-90.00	1,462.8	1,169.5	468.5	380.9	87.65	5.346		
8,900.0	7,152.4	9,016.0	7,152.4	46.9	48.0	-90.00	1,463.3	1,269.5	468.5	375.8	92.75	5.052		
9,000.0	7,152.4	9,116.0	7,152.4	49.4	50.5	-90.00	1,463.8	1,369.5	468.5	370.6	97.91	4.785		
9,100.0	7,152.4	9,216.0	7,152.4	52.0	53.0	-90.00	1,464.3	1,469.5	468.5	365.4	103.11	4.544		
9,200.0	7,152.4	9,316.0	7,152.4	54.7	55.6	-90.00	1,464.8	1,569.5	468.5	360.2	108.36	4.324		
9,300.0	7,152.4	9,416.0	7,152.4	57.3	58.1	-90.00	1,465.3	1,669.5	468.5	354.9	113.64	4.123		
9,400.0	7,152.4	9,516.0	7,152.4	59.9	60.7	-90.00	1,465.7	1,769.5	468.5	349.6	118.95	3.939		
9,500.0	7,152.4	9,616.0	7,152.4	62.6	63.3	-90.00	1,466.2	1,869.5	468.5	344.2	124.28	3.770		
9,600.0	7,152.4	9,716.0	7,152.4	65.3	66.0	-90.00	1,466.7	1,969.5	468.5	338.9	129.64	3.614		
9,700.0	7,152.4	9,816.0	7,152.4	68.0	68.6	-90.00	1,467.2	2,069.5	468.5	333.5	135.02	3.470		
9,800.0	7,152.4	9,916.0	7,152.4	70.7	71.3	-90.00	1,467.7	2,169.5	468.5	328.1	140.42	3.337		
9,900.0	7,152.4	10,016.0	7,152.4	73.4	73.9	-90.00	1,468.2	2,269.5	468.5	322.7	145.83	3.213		
10,000.0	7,152.4	10,116.0	7,152.4	76.1	76.6	-90.00	1,468.7	2,369.5	468.5	317.3	151.26	3.097		
10,100.0	7,152.4	10,216.0	7,152.4	78.8	79.3	-90.00	1,469.2	2,469.5	468.5	311.8	156.70	2.990		
10,200.0	7,152.4	10,316.0	7,152.4	81.5	82.0	-90.00	1,469.7	2,569.5	468.5	306.4	162.15	2.889		
10,300.0	7,152.4	10,416.0	7,152.4	84.2	84.7	-90.00	1,470.2	2,669.5	468.5	300.9	167.61	2.795		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,152.4	10,516.0	7,152.4	86.9	87.4	-90.00	1,470.7	2,769.5	468.5	295.4	173.09	2.707		
10,500.0	7,152.4	10,616.0	7,152.4	89.7	90.1	-90.00	1,471.2	2,869.5	468.5	289.9	178.57	2.624		
10,600.0	7,152.4	10,716.0	7,152.4	92.4	92.8	-90.00	1,471.6	2,969.5	468.5	284.5	184.05	2.545		
10,700.0	7,152.4	10,816.0	7,152.4	95.2	95.5	-90.00	1,472.1	3,069.5	468.5	279.0	189.55	2.472		
10,800.0	7,152.4	10,916.0	7,152.4	97.9	98.3	-90.00	1,472.6	3,169.5	468.5	273.5	195.05	2.402		
10,900.0	7,152.4	11,016.0	7,152.4	100.7	101.0	-90.00	1,473.1	3,269.5	468.5	267.9	200.56	2.336		
11,000.0	7,152.4	11,116.0	7,152.4	103.4	103.7	-90.00	1,473.6	3,369.5	468.5	262.4	206.07	2.273		
11,100.0	7,152.4	11,216.0	7,152.4	106.2	106.5	-90.00	1,474.1	3,469.5	468.5	256.9	211.59	2.214		
11,200.0	7,152.4	11,316.0	7,152.4	108.9	109.2	-90.00	1,474.6	3,569.5	468.5	251.4	217.11	2.158		
11,300.0	7,152.4	11,416.0	7,152.4	111.7	112.0	-90.00	1,475.1	3,669.5	468.5	245.9	222.64	2.104		
11,400.0	7,152.4	11,516.0	7,152.4	114.4	114.7	-90.00	1,475.6	3,769.5	468.5	240.3	228.17	2.053		
11,500.0	7,152.4	11,616.0	7,152.4	117.2	117.5	-90.00	1,476.1	3,869.5	468.5	234.8	233.71	2.005		
11,600.0	7,152.4	11,716.0	7,152.4	120.0	120.2	-90.00	1,476.6	3,969.5	468.5	229.2	239.24	1.958		
11,700.0	7,152.4	11,816.0	7,152.4	122.7	123.0	-90.00	1,477.1	4,069.5	468.5	223.7	244.79	1.914		
11,800.0	7,152.4	11,916.0	7,152.4	125.5	125.7	-90.00	1,477.5	4,169.5	468.5	218.2	250.33	1.871		
11,900.0	7,152.4	12,016.0	7,152.4	128.3	128.5	-90.00	1,478.0	4,269.5	468.5	212.6	255.88	1.831		
12,000.0	7,152.4	12,116.0	7,152.4	131.0	131.3	-90.00	1,478.5	4,369.4	468.5	207.1	261.43	1.792		
12,038.9	7,152.4	12,154.8	7,152.4	132.1	132.3	-90.00	1,478.7	4,408.3	468.5	204.9	263.58	1.777		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-042HC - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	88.62		0.7	30.1	30.2				
100.0	100.0	100.0	100.0	0.1	0.1	88.62		0.7	30.1	30.2	29.9	0.22	134.177	
200.0	200.0	200.0	200.0	0.3	0.3	88.62		0.7	30.1	30.2	29.5	0.67	44.726	
300.0	300.0	300.0	300.0	0.6	0.6	88.62		0.7	30.1	30.2	29.0	1.12	26.835	
400.0	400.0	400.0	400.0	0.8	0.8	88.62		0.7	30.1	30.2	28.6	1.57	19.168	
500.0	500.0	500.0	500.0	1.0	1.0	88.62		0.7	30.1	30.2	28.1	2.02	14.909	
600.0	600.0	600.0	600.0	1.2	1.2	88.62		0.7	30.1	30.2	27.7	2.47	12.198	
700.0	700.0	700.0	700.0	1.5	1.5	88.62		0.7	30.1	30.2	27.2	2.92	10.321	
800.0	800.0	800.0	800.0	1.7	1.7	88.62		0.7	30.1	30.2	26.8	3.37	8.945	
900.0	900.0	900.0	900.0	1.9	1.9	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		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	88.62		0.7	30.1	30.2	9.3	20.90	1.443 Level 3, CC, ES, SF	
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	119.88		0.7	30.1	31.2	9.8	21.35	1.460 Level 3	
4,900.0	4,899.7	4,899.7	4,899.7	10.9	10.9	130.11		0.7	30.1	35.4	13.6	21.76	1.627	
5,000.0	4,998.9	4,998.9	4,998.9	11.1	11.1	142.33		0.7	30.1	44.5	22.4	22.10	2.014	
5,100.0	5,097.3	5,097.3	5,097.3	11.4	11.3	152.55		0.7	30.1	59.6	37.2	22.37	2.663	

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-042HC - 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	5,194.6	5,194.6	5,194.6	11.6	11.6	159.81	0.7	30.1	80.6	58.0	22.57	3.570		
5,300.0	5,290.7	5,294.2	5,294.2	11.9	11.8	164.89	1.5	29.4	106.3	83.5	22.72	4.676		
5,400.0	5,385.1	5,396.8	5,396.8	12.2	12.0	168.64	6.1	25.2	132.6	109.8	22.82	5.810		
5,500.0	5,477.7	5,500.9	5,500.0	12.5	12.2	171.68	14.9	17.2	159.1	136.2	22.87	6.955		
5,600.0	5,568.1	5,606.5	5,604.1	12.9	12.5	174.32	28.1	5.2	185.6	162.8	22.88	8.113		
5,700.0	5,656.3	5,713.6	5,708.5	13.4	12.7	176.72	45.7	-10.9	212.2	189.4	22.86	9.284		
5,800.0	5,742.8	5,822.8	5,813.3	14.0	13.0	178.99	68.2	-31.3	236.9	213.6	23.28	10.176		
5,900.0	5,829.3	5,934.6	5,918.7	14.6	13.4	-178.80	95.7	-56.4	256.3	232.5	23.80	10.769		
6,000.0	5,915.9	6,048.2	6,023.4	15.2	13.8	-176.51	128.3	-86.2	270.5	246.1	24.38	11.095		
6,100.0	6,002.4	6,163.0	6,126.4	15.9	14.3	-174.00	165.8	-120.4	279.3	254.3	25.02	11.162		
6,200.0	6,088.9	6,272.3	6,221.5	16.6	14.9	-171.34	205.5	-156.6	283.3	257.6	25.74	11.008		
6,300.0	6,175.4	6,371.5	6,307.2	17.4	15.5	-168.90	242.3	-190.2	286.8	260.2	26.51	10.817		
6,400.0	6,262.0	6,470.7	6,393.0	18.2	16.1	-166.52	279.2	-223.7	290.7	263.3	27.37	10.622		
6,500.0	6,348.5	6,569.9	6,478.8	19.0	16.8	-164.21	316.0	-257.3	295.1	266.8	28.32	10.421		
6,600.0	6,435.0	6,669.1	6,584.5	19.8	17.5	-161.97	352.8	-290.9	300.0	270.7	29.37	10.215		
6,700.0	6,521.5	6,768.2	6,650.3	20.6	18.2	-159.80	389.7	-324.5	305.4	274.9	30.52	10.005		
6,800.0	6,608.0	6,867.4	6,736.0	21.5	19.0	-157.71	426.5	-358.1	311.2	279.4	31.77	9.795		
6,900.0	6,694.8	6,965.7	6,821.7	22.3	19.7	-162.76	463.3	-388.9	317.4	284.5	32.91	9.644		
7,000.0	6,783.4	7,064.2	6,911.4	23.0	20.2	173.00	501.8	-401.1	324.1	290.5	33.58	9.651		
7,100.0	6,870.9	7,164.4	7,002.7	23.4	20.5	151.14	541.1	-391.0	330.8	296.8	34.00	9.729		
7,200.0	6,952.7	7,266.2	7,091.0	23.7	20.7	136.59	579.0	-358.0	337.3	303.0	34.26	9.844		
7,300.0	7,024.7	7,369.7	7,171.3	28.9	20.8	127.92	613.5	-302.9	343.1	308.6	34.50	9.943		
7,400.0	7,083.0	7,474.9	7,238.4	24.0	20.8	122.87	642.3	-227.6	347.9	312.9	34.94	9.955		
7,500.0	7,124.9	7,581.4	7,287.8	24.0	20.8	120.05	663.6	-136.0	351.4	315.5	35.84	9.804		
7,600.0	7,148.0	7,688.9	7,315.8	24.0	20.7	118.74	675.6	-33.2	353.3	316.0	37.34	9.463		
7,700.0	7,152.4	7,795.7	7,321.4	23.9	20.9	118.54	678.1	73.3	353.7	314.3	39.40	8.978		
7,800.0	7,152.4	7,895.7	7,321.4	23.9	22.1	118.54	678.5	173.3	353.8	311.9	41.90	8.442		
7,900.0	7,152.4	7,995.7	7,321.4	24.4	23.8	118.54	679.0	273.3	353.8	309.0	44.82	7.894		
8,000.0	7,152.4	8,095.7	7,321.4	25.9	25.7	118.53	679.5	373.3	353.8	305.7	48.07	7.360		
8,100.0	7,152.4	8,195.7	7,321.4	27.9	27.8	118.53	679.9	473.3	353.8	302.2	51.60	6.857		
8,200.0	7,152.4	8,295.7	7,321.4	30.0	29.9	118.53	680.4	573.3	353.8	298.5	55.36	6.392		
8,300.0	7,152.4	8,395.7	7,321.4	32.2	32.2	118.53	680.9	673.3	353.9	294.6	59.30	5.968		
8,400.0	7,152.4	8,495.7	7,321.4	34.5	34.5	118.53	681.4	773.3	353.9	290.5	63.38	5.584		
8,500.0	7,152.4	8,595.7	7,321.4	36.9	36.9	118.52	681.8	873.3	353.9	286.3	67.59	5.236		
8,600.0	7,152.4	8,695.7	7,321.4	39.3	39.4	118.52	682.3	973.3	353.9	282.0	71.89	4.923		
8,700.0	7,152.4	8,795.7	7,321.4	41.8	41.9	118.52	682.8	1,073.3	354.0	277.7	76.28	4.640		
8,800.0	7,152.4	8,895.7	7,321.4	44.3	44.4	118.52	683.2	1,173.3	354.0	273.2	80.74	4.384		
8,900.0	7,152.4	8,995.7	7,321.4	46.9	46.9	118.52	683.7	1,273.3	354.0	268.7	85.25	4.152		
9,000.0	7,152.4	9,095.7	7,321.4	49.4	49.5	118.51	684.2	1,373.2	354.0	264.2	89.82	3.941		
9,100.0	7,152.4	9,195.7	7,321.4	52.0	52.1	118.51	684.6	1,473.2	354.0	259.6	94.43	3.749		
9,200.0	7,152.4	9,295.7	7,321.4	54.7	54.8	118.51	685.1	1,573.2	354.1	255.0	99.07	3.574		
9,300.0	7,152.4	9,395.7	7,321.4	57.3	57.4	118.51	685.6	1,673.2	354.1	250.3	103.75	3.413		
9,400.0	7,152.4	9,495.7	7,321.4	59.9	60.1	118.51	686.0	1,773.2	354.1	245.7	108.45	3.265		
9,500.0	7,152.4	9,595.7	7,321.4	62.6	62.7	118.50	686.5	1,873.2	354.1	240.9	113.18	3.129		
9,600.0	7,152.4	9,695.7	7,321.4	65.3	65.4	118.50	687.0	1,973.2	354.2	236.2	117.93	3.003		
9,700.0	7,152.4	9,795.7	7,321.4	68.0	68.1	118.50	687.4	2,073.2	354.2	231.5	122.70	2.886		
9,800.0	7,152.4	9,895.7	7,321.4	70.7	70.8	118.50	687.9	2,173.2	354.2	226.7	127.49	2.778		
9,900.0	7,152.4	9,995.7	7,321.4	73.4	73.5	118.50	688.4	2,273.2	354.2	221.9	132.29	2.678		
10,000.0	7,152.4	10,095.7	7,321.4	76.1	76.2	118.49	688.9	2,373.2	354.2	217.1	137.10	2.584		
10,100.0	7,152.4	10,195.7	7,321.4	78.8	78.9	118.49	689.3	2,473.2	354.3	212.3	141.93	2.496		
10,200.0	7,152.4	10,295.7	7,321.4	81.5	81.7	118.49	689.8	2,573.2	354.3	207.5	146.76	2.414		
10,300.0	7,152.4	10,395.7	7,321.4	84.2	84.4	118.49	690.3	2,673.2	354.3	202.7	151.61	2.337		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-042HC - 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	7,152.4	10,495.7	7,321.4	86.9	87.1	118.49	690.7	2,773.2	354.3	197.9	156.47	2.265		
10,500.0	7,152.4	10,595.7	7,321.4	89.7	89.9	118.48	691.2	2,873.2	354.4	193.0	161.33	2.196		
10,600.0	7,152.4	10,695.7	7,321.4	92.4	92.6	118.48	691.7	2,973.2	354.4	188.2	166.20	2.132		
10,700.0	7,152.4	10,795.7	7,321.4	95.2	95.3	118.48	692.1	3,073.2	354.4	183.3	171.08	2.072		
10,800.0	7,152.4	10,895.7	7,321.4	97.9	98.1	118.48	692.6	3,173.2	354.4	178.5	175.96	2.014		
10,900.0	7,152.4	10,995.7	7,321.4	100.7	100.8	118.48	693.1	3,273.2	354.4	173.6	180.85	1.960		
11,000.0	7,152.4	11,095.7	7,321.4	103.4	103.6	118.48	693.5	3,373.2	354.5	168.7	185.75	1.908		
11,100.0	7,152.4	11,195.7	7,321.4	106.2	106.4	118.47	694.0	3,473.2	354.5	163.8	190.65	1.859		
11,200.0	7,152.4	11,295.7	7,321.4	108.9	109.1	118.47	694.5	3,573.2	354.5	158.9	195.56	1.813		
11,300.0	7,152.4	11,395.7	7,321.4	111.7	111.9	118.47	694.9	3,673.2	354.5	154.1	200.47	1.769		
11,400.0	7,152.4	11,495.7	7,321.4	114.4	114.6	118.47	695.4	3,773.2	354.5	149.2	205.38	1.726		
11,500.0	7,152.4	11,595.7	7,321.4	117.2	117.4	118.47	695.9	3,873.2	354.6	144.3	210.30	1.686		
11,600.0	7,152.4	11,695.7	7,321.4	120.0	120.2	118.46	696.4	3,973.2	354.6	139.4	215.22	1.648		
11,700.0	7,152.4	11,795.7	7,321.4	122.7	123.0	118.46	696.8	4,073.2	354.6	134.5	220.14	1.611		
11,800.0	7,152.4	11,895.7	7,321.4	125.5	125.7	118.46	697.3	4,173.2	354.6	129.6	225.07	1.576		
11,900.0	7,152.4	11,995.7	7,321.4	128.3	128.5	118.46	697.8	4,273.2	354.7	124.7	230.00	1.542		
12,000.0	7,152.4	12,095.7	7,321.4	131.0	131.3	118.46	698.2	4,373.2	354.7	119.8	234.93	1.510		
12,018.7	7,152.4	12,114.4	7,321.4	131.6	131.8	118.46	698.3	4,391.9	354.7	118.8	235.85	1.504		
12,038.9	7,152.4	12,131.8	7,321.4	132.1	132.3	118.46	698.4	4,409.3	354.7	117.9	236.78	1.498 Level 3		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle LC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (")	Offset Wellbore Centre	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
								+N-S (ft)	+E-W (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	88.28		1.8	60.6	60.6				
100.0	100.0	100.0	100.0	0.1	0.1	88.28		1.8	60.6	60.6	60.4	0.22	269.640	
200.0	200.0	200.0	200.0	0.3	0.3	88.28		1.8	60.6	60.6	59.9	0.67	89.880	
300.0	300.0	300.0	300.0	0.6	0.6	88.28		1.8	60.6	60.6	59.5	1.12	53.928	
400.0	400.0	400.0	400.0	0.8	0.8	88.28		1.8	60.6	60.6	59.0	1.57	38.520	
500.0	500.0	500.0	500.0	1.0	1.0	88.28		1.8	60.6	60.6	58.6	2.02	29.960	
600.0	600.0	600.0	600.0	1.2	1.2	88.28		1.8	60.6	60.6	58.1	2.47	24.513	
700.0	700.0	700.0	700.0	1.5	1.5	88.28		1.8	60.6	60.6	57.7	2.92	20.742	
800.0	800.0	800.0	800.0	1.7	1.7	88.28		1.8	60.6	60.6	57.2	3.37	17.976	
900.0	900.0	900.0	900.0	1.9	1.9	88.28		1.8	60.6	60.6	56.8	3.82	15.861	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	88.28		1.8	60.6	60.6	56.3	4.27	14.192	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	88.28		1.8	60.6	60.6	55.9	4.72	12.840	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	88.28		1.8	60.6	60.6	55.4	5.17	11.723	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	88.28		1.8	60.6	60.6	55.0	5.62	10.786	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	88.28		1.8	60.6	60.6	54.5	6.07	9.987	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	88.28		1.8	60.6	60.6	54.1	6.52	9.298	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	88.28		1.8	60.6	60.6	53.6	6.97	8.698	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	88.28		1.8	60.6	60.6	53.2	7.42	8.171	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	88.28		1.8	60.6	60.6	52.7	7.87	7.704	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	88.28		1.8	60.6	60.6	52.3	8.32	7.288	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	88.28		1.8	60.6	60.6	51.8	8.77	6.914	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	88.28		1.8	60.6	60.6	51.4	9.22	6.577	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	88.28		1.8	60.6	60.6	50.9	9.66	6.271	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	88.28		1.8	60.6	60.6	50.5	10.11	5.992	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	88.28		1.8	60.6	60.6	50.0	10.56	5.737	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	88.28		1.8	60.6	60.6	49.6	11.01	5.503	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	88.28		1.8	60.6	60.6	49.1	11.46	5.287	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	88.28		1.8	60.6	60.6	48.7	11.91	5.088	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	88.28		1.8	60.6	60.6	48.2	12.36	4.903	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	88.28		1.8	60.6	60.6	47.8	12.81	4.731	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	88.28		1.8	60.6	60.6	47.3	13.26	4.570	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	88.28		1.8	60.6	60.6	46.9	13.71	4.420	
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	88.28		1.8	60.6	60.6	46.4	14.16	4.280	
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	88.28		1.8	60.6	60.6	46.0	14.61	4.148	
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	88.28		1.8	60.6	60.6	45.5	15.06	4.024	
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	88.28		1.8	60.6	60.6	45.1	15.51	3.908	
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	88.28		1.8	60.6	60.6	44.6	15.96	3.798	
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	88.28		1.8	60.6	60.6	44.2	16.41	3.694	
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	88.28		1.8	60.6	60.6	43.7	16.86	3.595	
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	88.28		1.8	60.6	60.6	43.3	17.31	3.502	
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	88.28		1.8	60.6	60.6	42.8	17.76	3.413	
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	88.28		1.8	60.6	60.6	42.4	18.21	3.329	
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	88.28		1.8	60.6	60.6	42.0	18.66	3.249	
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	88.28		1.8	60.6	60.6	41.5	19.11	3.172	
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	88.28		1.8	60.6	60.6	41.1	19.55	3.099	
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	88.28		1.8	60.6	60.6	40.6	20.00	3.030	
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	88.28		1.8	60.6	60.6	40.2	20.45	2.963	
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	88.28		1.8	60.6	60.6	39.7	20.90	2.899 CC, ES	
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	117.83		1.8	60.6	61.6	40.2	21.35	2.884 SF	
4,900.0	4,899.7	4,899.7	4,899.7	10.9	10.9	123.41		1.8	60.6	65.3	43.5	21.77	3.001	
5,000.0	4,998.9	4,998.9	4,998.9	11.1	11.1	131.44		1.8	60.6	73.0	50.8	22.14	3.296	
5,100.0	5,097.3	5,097.3	5,097.3	11.4	11.3	140.03		1.8	60.6	85.8	63.4	22.45	3.822	

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle LC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	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	5,194.6	5,194.6	5,194.6	11.6	11.6	147.74	1.8	60.6	104.5	81.8	22.68	4.606		
5,300.0	5,290.7	5,290.7	5,290.7	11.9	11.8	153.98	1.8	60.6	129.1	106.3	22.83	5.653		
5,400.0	5,385.1	5,385.1	5,385.1	12.2	12.0	158.79	1.8	60.6	159.5	136.6	22.93	6.957		
5,500.0	5,477.7	5,477.7	5,477.7	12.5	12.2	162.43	1.8	60.6	195.4	172.5	22.97	8.510		
5,600.0	5,568.1	5,568.1	5,568.1	12.9	12.4	165.18	1.8	60.6	236.6	213.7	22.95	10.309		
5,700.0	5,656.3	5,656.1	5,655.0	13.4	12.6	168.12	0.9	57.8	281.9	259.1	22.88	12.324		
5,800.0	5,742.8	5,764.9	5,763.4	14.0	12.8	172.99	-4.2	42.7	327.2	304.0	23.16	14.128		
5,900.0	5,829.3	5,861.0	5,855.3	14.6	13.0	178.62	-13.1	16.0	371.1	347.6	23.57	15.743		
6,000.0	5,915.9	5,950.5	5,936.7	15.2	13.3	-175.58	-24.8	-19.2	415.8	391.6	24.12	17.238		
6,100.0	6,002.4	6,031.1	6,006.4	15.9	13.6	-170.23	-37.6	-57.6	462.9	438.1	24.81	18.655		
6,200.0	6,088.9	6,109.6	6,073.8	16.6	13.9	-165.76	-50.4	-95.8	513.2	487.6	25.62	20.030		
6,300.0	6,175.4	6,188.1	6,141.2	17.4	14.3	-161.98	-63.1	-133.9	565.8	539.2	26.52	21.332		
6,400.0	6,262.0	6,266.6	6,208.7	18.2	14.7	-158.77	-75.8	-172.0	620.1	592.6	27.50	22.551		
6,500.0	6,348.5	6,345.1	6,276.1	19.0	15.2	-156.02	-88.5	-210.1	675.7	647.2	28.53	23.686		
6,600.0	6,435.0	6,423.6	6,343.5	19.8	15.7	-153.66	-101.3	-248.2	732.3	702.8	29.60	24.744		
6,700.0	6,521.5	6,502.1	6,410.9	20.6	16.2	-151.61	-114.0	-286.3	789.8	759.1	30.70	25.723		
6,800.0	6,608.0	6,580.6	6,478.4	21.5	16.8	-149.82	-126.7	-324.5	847.9	816.0	31.85	26.624		
6,900.0	6,694.8	6,655.5	6,543.5	22.3	17.2	-157.76	-139.0	-359.2	906.6	874.1	32.50	27.901		
7,000.0	6,783.4	6,727.4	6,610.1	23.0	17.6	169.38	-151.5	-382.8	967.0	934.5	32.43	29.816		
7,100.0	6,870.9	6,801.0	6,681.4	23.4	17.8	139.49	-164.8	-395.3	1,027.0	993.9	33.05	31.073		
7,200.0	6,952.7	6,880.0	6,759.0	23.7	18.0	118.17	-179.3	-395.0	1,084.3	1,050.2	34.02	31.869		
7,300.0	7,024.7	6,969.7	6,845.4	23.9	18.1	104.39	-195.4	-377.7	1,136.5	1,101.6	34.88	32.581		
7,400.0	7,083.0	7,078.3	6,942.6	24.0	18.1	96.06	-213.3	-333.6	1,181.2	1,145.6	35.53	33.245		
7,500.0	7,124.9	7,217.0	7,046.5	24.0	18.2	91.72	-232.4	-244.6	1,215.5	1,179.1	36.34	33.452		
7,600.0	7,148.0	7,394.7	7,131.6	24.0	19.0	90.16	-247.6	-90.7	1,235.8	1,197.6	38.16	32.383		
7,700.0	7,152.4	7,564.4	7,152.4	23.9	20.8	90.00	-250.9	76.8	1,239.7	1,198.5	41.19	30.094		
7,800.0	7,152.4	7,664.4	7,152.4	23.9	22.3	90.00	-250.5	176.8	1,239.8	1,195.7	44.06	28.141		
7,900.0	7,152.4	7,764.4	7,152.4	24.4	24.0	90.00	-250.1	276.8	1,239.9	1,192.5	47.40	26.157		
8,000.0	7,152.4	7,864.4	7,152.4	25.9	25.9	90.00	-249.7	376.8	1,240.0	1,188.8	51.15	24.244		
8,100.0	7,152.4	7,964.4	7,152.4	27.9	28.0	90.00	-249.3	476.8	1,240.1	1,184.9	55.21	22.463		
8,200.0	7,152.4	8,064.4	7,152.4	30.0	30.2	90.00	-248.9	576.8	1,240.2	1,180.6	59.52	20.836		
8,300.0	7,152.4	8,164.4	7,152.4	32.2	32.5	90.00	-248.5	676.8	1,240.3	1,176.2	64.03	19.368		
8,400.0	7,152.4	8,264.4	7,152.4	34.5	34.8	90.00	-248.1	776.8	1,240.3	1,171.6	68.71	18.052		
8,500.0	7,152.4	8,364.4	7,152.4	36.9	37.2	90.00	-247.7	876.8	1,240.4	1,166.9	73.52	16.872		
8,600.0	7,152.4	8,464.4	7,152.4	39.3	39.7	90.00	-247.3	976.8	1,240.5	1,162.1	78.43	15.816		
8,700.0	7,152.4	8,564.4	7,152.4	41.8	42.2	90.00	-246.9	1,076.8	1,240.6	1,157.2	83.44	14.869		
8,800.0	7,152.4	8,664.4	7,152.4	44.3	44.8	90.00	-246.4	1,176.8	1,240.7	1,152.2	88.51	14.018		
8,900.0	7,152.4	8,764.4	7,152.4	46.9	47.3	90.00	-246.0	1,276.8	1,240.8	1,147.2	93.65	13.250		
9,000.0	7,152.4	8,864.4	7,152.4	49.4	49.9	90.00	-245.6	1,376.8	1,240.9	1,142.1	98.83	12.555		
9,100.0	7,152.4	8,964.4	7,152.4	52.0	52.6	90.00	-245.2	1,476.8	1,241.0	1,136.9	104.07	11.925		
9,200.0	7,152.4	9,064.4	7,152.4	54.7	55.2	90.00	-244.8	1,576.8	1,241.1	1,131.7	109.34	11.351		
9,300.0	7,152.4	9,164.4	7,152.4	57.3	57.8	90.00	-244.4	1,676.8	1,241.2	1,126.5	114.64	10.827		
9,400.0	7,152.4	9,264.4	7,152.4	59.9	60.5	90.00	-244.0	1,776.8	1,241.3	1,121.3	119.97	10.347		
9,500.0	7,152.4	9,364.4	7,152.4	62.6	63.2	90.00	-243.6	1,876.8	1,241.4	1,116.0	125.32	9.906		
9,600.0	7,152.4	9,464.4	7,152.4	65.3	65.9	90.00	-243.2	1,976.8	1,241.5	1,110.8	130.70	9.499		
9,700.0	7,152.4	9,564.4	7,152.4	68.0	68.6	90.00	-242.8	2,076.8	1,241.5	1,105.5	136.09	9.123		
9,800.0	7,152.4	9,664.4	7,152.4	70.7	71.3	90.00	-242.4	2,176.8	1,241.6	1,100.1	141.50	8.775		
9,900.0	7,152.4	9,764.4	7,152.4	73.4	74.0	90.00	-242.0	2,276.8	1,241.7	1,094.8	146.93	8.451		
10,000.0	7,152.4	9,864.4	7,152.4	76.1	76.7	90.00	-241.6	2,376.8	1,241.8	1,089.5	152.37	8.150		
10,100.0	7,152.4	9,964.4	7,152.4	78.8	79.5	90.00	-241.2	2,476.8	1,241.9	1,084.1	157.82	7.869		
10,200.0	7,152.4	10,064.4	7,152.4	81.5	82.2	90.00	-240.8	2,576.8	1,242.0	1,078.7	163.28	7.607		
10,300.0	7,152.4	10,164.4	7,152.4	84.2	84.9	90.00	-240.4	2,676.8	1,242.1	1,073.3	168.75	7.361		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle LC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	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:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,400.0	7,152.4	10,264.4	7,152.4	86.9	87.7	90.00	-240.0	2,776.8	1,242.2	1,068.0	174.23	7.130		
10,500.0	7,152.4	10,364.4	7,152.4	89.7	90.4	90.00	-239.6	2,876.8	1,242.3	1,062.6	179.72	6.912		
10,600.0	7,152.4	10,464.4	7,152.4	92.4	93.2	90.00	-239.2	2,976.8	1,242.4	1,057.2	185.21	6.708		
10,700.0	7,152.4	10,564.4	7,152.4	95.2	95.9	90.00	-238.8	3,076.8	1,242.5	1,051.8	190.72	6.515		
10,800.0	7,152.4	10,664.4	7,152.4	97.9	98.7	90.00	-238.4	3,176.8	1,242.6	1,046.3	196.22	6.332		
10,900.0	7,152.4	10,764.4	7,152.4	100.7	101.4	90.00	-238.0	3,276.8	1,242.7	1,040.9	201.74	6.160		
11,000.0	7,152.4	10,864.4	7,152.4	103.4	104.2	90.00	-237.6	3,376.8	1,242.7	1,035.5	207.26	5.996		
11,100.0	7,152.4	10,964.4	7,152.4	106.2	106.9	90.00	-237.2	3,476.8	1,242.8	1,030.1	212.78	5.841		
11,200.0	7,152.4	11,064.4	7,152.4	108.9	109.7	90.00	-236.8	3,576.8	1,242.9	1,024.6	218.31	5.693		
11,300.0	7,152.4	11,164.4	7,152.4	111.7	112.5	90.00	-236.4	3,676.8	1,243.0	1,019.2	223.84	5.553		
11,400.0	7,152.4	11,264.4	7,152.4	114.4	115.2	90.00	-236.0	3,776.8	1,243.1	1,013.7	229.38	5.420		
11,500.0	7,152.4	11,364.4	7,152.4	117.2	118.0	90.00	-235.6	3,876.8	1,243.2	1,008.3	234.92	5.292		
11,600.0	7,152.4	11,464.4	7,152.4	120.0	120.8	90.00	-235.2	3,976.8	1,243.3	1,002.8	240.46	5.171		
11,700.0	7,152.4	11,564.4	7,152.4	122.7	123.6	90.00	-234.8	4,076.7	1,243.4	997.4	246.01	5.054		
11,800.0	7,152.4	11,664.4	7,152.4	125.5	126.3	90.00	-234.4	4,176.7	1,243.5	991.9	251.55	4.943		
11,900.0	7,152.4	11,764.4	7,152.4	128.3	129.1	90.00	-234.0	4,276.7	1,243.6	986.5	257.10	4.837		
12,000.0	7,152.4	11,864.4	7,152.4	131.0	131.2	90.00	-233.6	4,376.7	1,243.7	981.7	262.01	4.747		
12,010.3	7,152.4	11,874.7	7,152.4	131.3	131.4	90.00	-233.6	4,387.0	1,243.7	981.2	262.48	4.738		
12,038.9	7,152.4	11,891.5	7,152.4	132.1	131.7	90.00	-233.5	4,403.9	1,243.8	980.2	263.57	4.719		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle LC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4993.4ft (RKB - 16.5')

Offset Depths are relative to Offset Datum

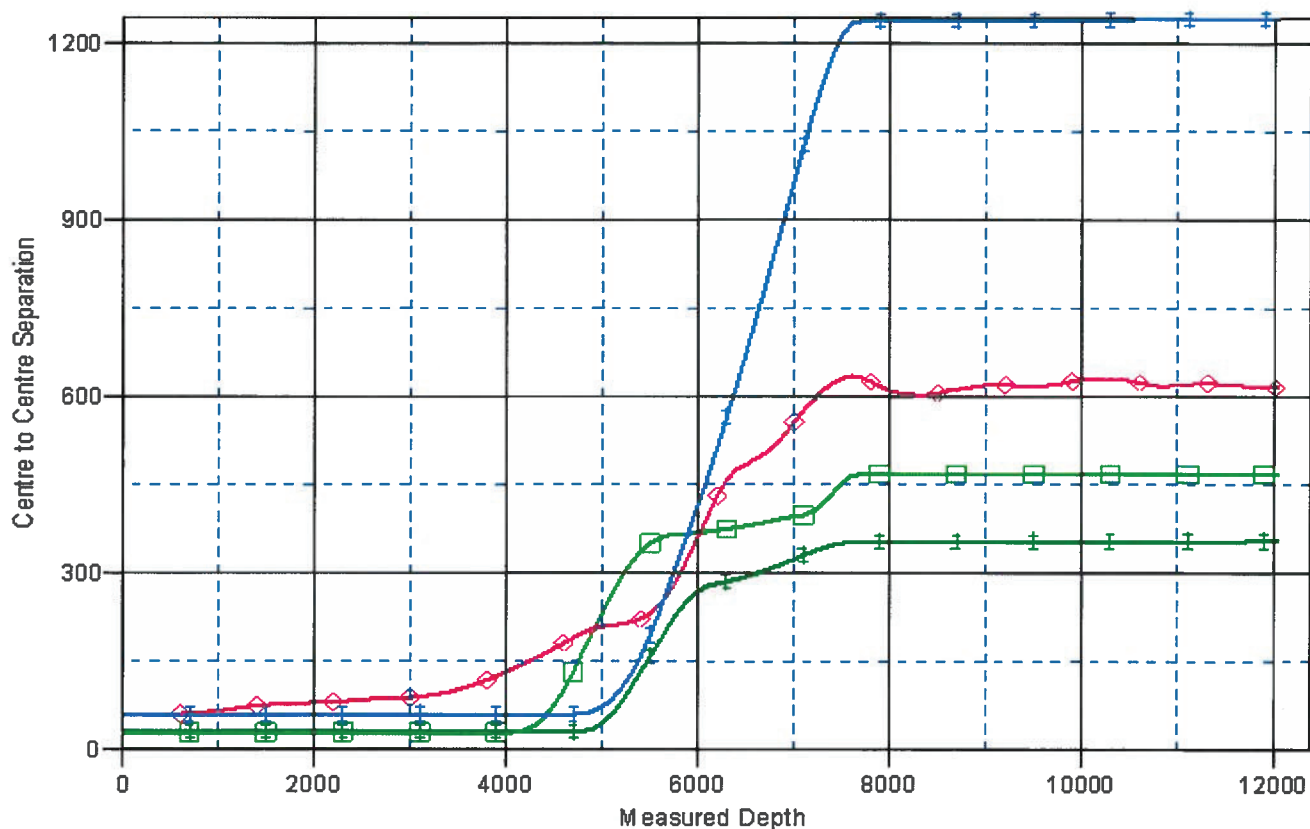
Central Meridian is -105.500000 °

Coordinates are relative to: Postle LC 11-039HN

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

1-4HN, Wellbore #1, Wellbore #1 V0 Postle LC 11-002HN, Wellbore #1, Plan #1 (12-10-13) V0
 11-042HC, Wellbore #1, Plan #1 (12-10-13) V0 Postle LC 11-122HN, Wellbore #1, Plan #1 (12-10-13) V0

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-039HN
Project:	SEC.11-T3N-R68W	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Reference Site:	Postle West Pad Sec.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle LC 11-039HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	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 11-039HN
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.34°

