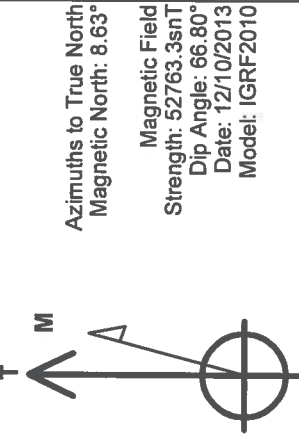


Great Western

Well Name: **PostleIC 11-159HC**
 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 Latitude Longitude
 0.0 0.0 1332051.75 3145730.70 40.243703 -104.977950
 RKB - 16.5' WELL @ 4993.4ft. (RKB - 16.5')

WELLBORE TARGET DETAILS

Name	TVD	+N-S	+E-W	Shape
SHL 1555'FNL & 511'FWL	1.0	0.0	0.0	Point
BHL 2025'FNL & 470'FEL	7321.4	-448.1	4307.9	Point
Entry Pt. 2019'FNL & 460'FWL	7321.4	-464.5	-48.9	Point



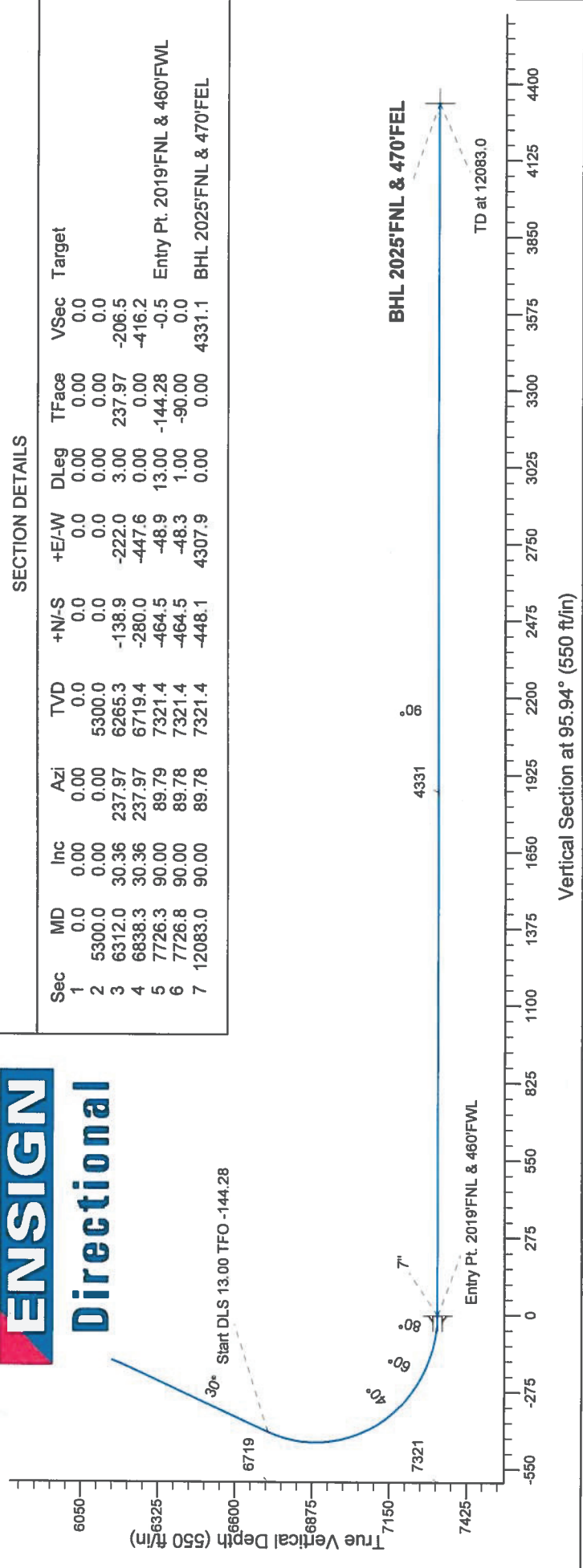
Postle West Pad Sec.11-T3N-R68W
 PostleIC 11-159HC
 Plan #1 (12-10-13)
 11:14, December 12 2013

ANNOTATIONS

TVD MD Annotation
 5300.0 5300.0 KOP - Start Build 3.00
 6719.4 6838.3 Start DLS 13.00 TFO-144.28
 7321.4 12083.0 TD at 12083.0



ENSIGN Directional





Directional

Great Western

SEC.11-T3N-R68W

Postle West Pad Sec.11-T3N-R68W

Postle I C 11-159HC

Wellbore #1

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

Standard Planning Report

12 December, 2013

Database:	Landmark	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 LC 11-159HC	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 LC 11-159HC					
Well Position	+N/-S	-92.9 ft	Northing:	1,332,051.75 ft	Latitude:	40.243703
	+E/-W	154.4 ft	Easting:	3,145,730.70 ft	Longitude:	-104.977950
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,976.9 ft

Wellbore	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

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	95.94

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	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,312.0	30.36	237.97	6,265.3	-138.9	-222.0	3.00	3.00	0.00	237.97	
6,838.3	30.36	237.97	6,719.4	-280.0	-447.6	0.00	0.00	0.00	0.00	
7,726.3	90.00	89.79	7,321.4	-464.5	-48.9	13.00	6.72	-16.69	-144.28	Entry Pt. 2019'FNL
7,726.8	90.00	89.78	7,321.4	-464.5	-48.3	1.00	0.00	-1.00	-90.00	
12,083.0	90.00	89.78	7,321.4	-448.1	4,307.9	0.00	0.00	0.00	0.00	BHL 2025'FNL & 47

Database:	Landmark	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 LC 11-159HC	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 1555'FNL & 511'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
4,800.0	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

Database:	Landmark	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 LC 11-159HC	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)
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 3.00									
5,400.0	3.00	237.97	5,400.0	-1.4	-2.2	-2.1	3.00	3.00	0.00
5,500.0	6.00	237.97	5,499.6	-5.5	-8.9	-8.2	3.00	3.00	0.00
5,600.0	9.00	237.97	5,598.8	-12.5	-19.9	-18.5	3.00	3.00	0.00
5,700.0	12.00	237.97	5,697.1	-22.1	-35.4	-32.9	3.00	3.00	0.00
5,800.0	15.00	237.97	5,794.3	-34.5	-55.2	-51.3	3.00	3.00	0.00
5,900.0	18.00	237.97	5,890.2	-49.6	-79.2	-73.7	3.00	3.00	0.00
6,000.0	21.00	237.97	5,984.4	-67.3	-107.5	-100.0	3.00	3.00	0.00
6,100.0	24.00	237.97	6,076.8	-87.6	-140.0	-130.2	3.00	3.00	0.00
6,200.0	27.00	237.97	6,167.1	-110.4	-176.5	-164.1	3.00	3.00	0.00
6,300.0	30.00	237.97	6,254.9	-135.7	-216.9	-201.7	3.00	3.00	0.00
6,312.0	30.36	237.97	6,265.3	-138.9	-222.0	-206.5	3.00	3.00	0.00
6,400.0	30.36	237.97	6,341.2	-162.5	-259.7	-241.5	0.00	0.00	0.00
6,500.0	30.36	237.97	6,427.5	-189.3	-302.6	-281.4	0.00	0.00	0.00
6,600.0	30.36	237.97	6,513.8	-216.1	-345.4	-321.2	0.00	0.00	0.00
6,700.0	30.36	237.97	6,600.1	-242.9	-388.3	-361.1	0.00	0.00	0.00
6,800.0	30.36	237.97	6,686.4	-269.7	-431.1	-400.9	0.00	0.00	0.00
6,838.3	30.36	237.97	6,719.4	-280.0	-447.5	-416.2	0.00	0.00	0.00
Start DLS 13.00 TFO -144.28									
6,900.0	24.26	226.54	6,774.3	-297.0	-470.0	-436.8	13.00	-9.88	-18.53
7,000.0	17.71	194.45	6,867.9	-326.0	-488.8	-452.4	13.00	-6.56	-32.08
7,100.0	19.13	152.70	6,963.2	-355.4	-485.1	-445.7	13.00	1.43	-41.75
7,200.0	27.32	126.51	7,055.2	-383.8	-459.0	-416.8	13.00	8.19	-26.19
7,300.0	38.13	112.96	7,139.3	-409.6	-411.9	-367.3	13.00	10.81	-13.55
7,400.0	49.88	104.88	7,211.2	-431.5	-346.3	-299.8	13.00	11.75	-8.08
7,500.0	62.01	99.24	7,267.1	-448.5	-265.4	-217.6	13.00	12.14	-5.64
7,600.0	74.34	94.76	7,304.2	-459.6	-173.4	-124.9	13.00	12.32	-4.48
7,700.0	86.74	90.80	7,320.7	-464.3	-75.1	-26.7	13.00	12.40	-3.96
7,726.3	90.00	89.79	7,321.4	-464.5	-48.9	-0.5	12.99	12.41	-3.84
7" - Entry Pt. 2019°FNL & 460°FWL									
7,726.8	90.00	89.78	7,321.4	-464.5	-48.3	0.0	1.34	0.62	-1.19
7,800.0	90.00	89.78	7,321.4	-464.2	24.9	72.8	0.00	0.00	0.00
7,900.0	90.00	89.78	7,321.4	-463.8	124.9	172.2	0.00	0.00	0.00
8,000.0	90.00	89.78	7,321.4	-463.4	224.9	271.6	0.00	0.00	0.00
8,100.0	90.00	89.78	7,321.4	-463.1	324.9	371.0	0.00	0.00	0.00
8,200.0	90.00	89.78	7,321.4	-462.7	424.9	470.5	0.00	0.00	0.00
8,300.0	90.00	89.78	7,321.4	-462.3	524.9	569.9	0.00	0.00	0.00
8,400.0	90.00	89.78	7,321.4	-461.9	624.9	669.3	0.00	0.00	0.00
8,500.0	90.00	89.78	7,321.4	-461.6	724.9	768.7	0.00	0.00	0.00
8,600.0	90.00	89.78	7,321.4	-461.2	824.9	868.2	0.00	0.00	0.00
8,700.0	90.00	89.78	7,321.4	-460.8	924.9	967.6	0.00	0.00	0.00
8,800.0	90.00	89.78	7,321.4	-460.4	1,024.9	1,067.0	0.00	0.00	0.00
8,900.0	90.00	89.78	7,321.4	-460.1	1,124.9	1,166.4	0.00	0.00	0.00
9,000.0	90.00	89.78	7,321.4	-459.7	1,224.9	1,265.8	0.00	0.00	0.00
9,100.0	90.00	89.78	7,321.4	-459.3	1,324.9	1,365.3	0.00	0.00	0.00
9,200.0	90.00	89.78	7,321.4	-458.9	1,424.9	1,464.7	0.00	0.00	0.00
9,300.0	90.00	89.78	7,321.4	-458.6	1,524.9	1,564.1	0.00	0.00	0.00
9,400.0	90.00	89.78	7,321.4	-458.2	1,624.9	1,663.5	0.00	0.00	0.00
9,500.0	90.00	89.78	7,321.4	-457.8	1,724.9	1,763.0	0.00	0.00	0.00
9,600.0	90.00	89.78	7,321.4	-457.4	1,824.9	1,862.4	0.00	0.00	0.00
9,700.0	90.00	89.78	7,321.4	-457.0	1,924.9	1,961.8	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 11-159HC	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	89.78	7,321.4	-456.7	2,024.9	2,061.2	0.00	0.00	0.00
9,900.0	90.00	89.78	7,321.4	-456.3	2,124.9	2,160.7	0.00	0.00	0.00
10,000.0	90.00	89.78	7,321.4	-455.9	2,224.9	2,260.1	0.00	0.00	0.00
10,100.0	90.00	89.78	7,321.4	-455.5	2,324.9	2,359.5	0.00	0.00	0.00
10,200.0	90.00	89.78	7,321.4	-455.2	2,424.9	2,458.9	0.00	0.00	0.00
10,300.0	90.00	89.78	7,321.4	-454.8	2,524.9	2,558.4	0.00	0.00	0.00
10,400.0	90.00	89.78	7,321.4	-454.4	2,624.9	2,657.8	0.00	0.00	0.00
10,500.0	90.00	89.78	7,321.4	-454.0	2,724.9	2,757.2	0.00	0.00	0.00
10,600.0	90.00	89.78	7,321.4	-453.7	2,824.9	2,856.6	0.00	0.00	0.00
10,700.0	90.00	89.78	7,321.4	-453.3	2,924.9	2,956.1	0.00	0.00	0.00
10,800.0	90.00	89.78	7,321.4	-452.9	3,024.9	3,055.5	0.00	0.00	0.00
10,900.0	90.00	89.78	7,321.4	-452.5	3,124.9	3,154.9	0.00	0.00	0.00
11,000.0	90.00	89.78	7,321.4	-452.2	3,224.9	3,254.3	0.00	0.00	0.00
11,100.0	90.00	89.78	7,321.4	-451.8	3,324.8	3,353.7	0.00	0.00	0.00
11,200.0	90.00	89.78	7,321.4	-451.4	3,424.8	3,453.2	0.00	0.00	0.00
11,300.0	90.00	89.78	7,321.4	-451.0	3,524.8	3,552.6	0.00	0.00	0.00
11,400.0	90.00	89.78	7,321.4	-450.6	3,624.8	3,652.0	0.00	0.00	0.00
11,500.0	90.00	89.78	7,321.4	-450.3	3,724.8	3,751.4	0.00	0.00	0.00
11,600.0	90.00	89.78	7,321.4	-449.9	3,824.8	3,850.9	0.00	0.00	0.00
11,700.0	90.00	89.78	7,321.4	-449.5	3,924.8	3,950.3	0.00	0.00	0.00
11,800.0	90.00	89.78	7,321.4	-449.1	4,024.8	4,049.7	0.00	0.00	0.00
11,900.0	90.00	89.78	7,321.4	-448.8	4,124.8	4,149.1	0.00	0.00	0.00
12,000.0	90.00	89.78	7,321.4	-448.4	4,224.8	4,248.6	0.00	0.00	0.00
12,083.0	90.00	89.78	7,321.4	-448.1	4,307.8	4,331.1	0.00	0.00	0.00

TD at 12083.0 - BHL 2025'FNL & 470'FEL

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,726.3	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)	
5,300.0	5,300.0	0.0	0.0	KOP - Start Build 3.00
6,838.3	6,719.4	-280.0	-447.5	Start DLS 13.00 TFO -144.28
12,083.0	7,321.4	-448.1	4,307.8	TD at 12083.0



Directional

Great Western

SEC.11-T3N-R68W

Postle West Pad Sec.11-T3N-R68W

Postle IC 11-159HC

Wellbore #1

Plan #1 (12-10-13)

Anticollision Report

12 December, 2013

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 11-159HC	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	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	12/11/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,083.0	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
Summary						
Offset Well - Wellbore - Design						
Postle West Pad Sec.11-T3N-R68W						
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	522.3	524.9	179.4	177.5	92.106	CC
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	600.0	601.9	179.6	177.3	78.492	ES
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	12,083.0	11,715.0	961.2	707.0	3.781	SF
Postle LC 11-162HN - Wellbore #1 - Plan #1 (12-10-13)	4,900.0	4,900.0	30.2	8.4	1.384	Level 3, CC, ES, SF
Postle LC 11-239HN - Wellbore #1 - Plan #1 (12-10-13)	4,100.0	4,100.0	59.8	41.6	3.286	CC, ES
Postle LC 11-239HN - Wellbore #1 - Plan #1 (12-10-13)	4,200.0	4,198.7	60.9	42.3	3.270	SF
Postle LC 11-259HC - Wellbore #1 - Plan #1 (12-10-13)	3,800.0	3,800.0	90.0	73.1	5.338	CC, ES
Postle LC 11-259HC - Wellbore #1 - Plan #1 (12-10-13)	12,083.0	12,369.5	1,248.8	987.4	4.777	SF

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-4HN - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 229-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Tooface (°)	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	2.6	2.6	0.0	0.0	-58.96	92.9	-154.4	180.2	180.2	0.00	N/A		
100.0	100.0	102.7	102.7	0.1	0.1	-58.99	92.8	-154.4	180.2	179.9	0.23	790.272		
200.0	200.0	202.7	202.7	0.3	0.2	-59.06	92.6	-154.5	180.1	179.5	0.57	318.669		
300.0	300.0	302.9	302.9	0.6	0.4	-59.16	92.3	-154.5	180.0	179.0	0.97	184.657		
400.0	400.0	403.2	403.2	0.8	0.6	-59.25	91.9	-154.5	179.7	178.3	1.41	127.249		
500.0	500.0	502.8	502.8	1.0	0.8	-59.45	91.2	-154.5	179.4	177.6	1.85	96.965		
522.3	522.3	524.9	524.9	1.1	0.9	-59.50	91.0	-154.6	179.4	177.5	1.95	92.106	CC	
600.0	600.0	601.9	601.9	1.2	1.1	-59.74	90.5	-155.1	179.6	177.3	2.29	78.492	ES	
700.0	700.0	701.7	701.7	1.5	1.3	-60.09	89.8	-156.0	180.0	177.3	2.72	66.278		
800.0	800.0	801.5	801.5	1.7	1.5	-60.39	89.2	-157.0	180.6	177.4	3.14	57.451		
900.0	900.0	900.7	900.7	1.9	1.7	-60.69	88.8	-158.1	181.4	177.8	3.57	50.758		
1,000.0	1,000.0	999.9	999.8	2.1	1.9	-61.13	88.2	-159.9	182.6	178.6	4.01	45.531		
1,100.0	1,100.0	1,098.7	1,098.6	2.4	2.1	-61.64	87.6	-162.3	184.5	180.0	4.45	41.467		
1,200.0	1,200.0	1,198.4	1,198.3	2.6	2.3	-62.01	87.7	-164.9	186.8	182.0	4.88	38.283		
1,300.0	1,300.0	1,299.1	1,298.9	2.8	2.5	-62.24	88.0	-167.2	188.9	183.6	5.31	35.601		
1,400.0	1,400.0	1,399.2	1,399.0	3.0	2.7	-62.39	88.4	-169.1	190.8	185.1	5.74	33.269		
1,500.0	1,500.0	1,499.7	1,499.5	3.3	2.9	-62.36	89.3	-170.6	192.6	186.4	6.17	31.224		
1,600.0	1,600.0	1,600.3	1,600.2	3.5	3.1	-62.05	90.9	-171.4	194.0	187.4	6.60	29.383		
1,700.0	1,700.0	1,701.4	1,701.2	3.7	3.3	-61.90	91.9	-172.0	195.0	188.0	7.04	27.706		
1,800.0	1,800.0	1,800.3	1,800.1	3.9	3.5	-61.82	92.5	-172.7	196.0	188.5	7.47	26.228		

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 11-159HC
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 11-159HC	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:	0.0 ft
Survey Program: 229-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 Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
1,900.0	1,900.0	1,900.1	1,899.8	4.2	3.8	-61.76	93.4	-173.8	197.3	189.4	7.91	24.954		
2,000.0	2,000.0	2,001.6	2,001.4	4.4	4.0	-61.71	94.0	-174.6	198.3	190.0	8.35	23.764		
2,100.0	2,100.0	2,100.9	2,100.7	4.6	4.2	-61.54	94.9	-175.0	199.1	190.3	8.78	22.685		
2,200.0	2,200.0	2,200.3	2,200.0	4.8	4.4	-61.37	96.0	-175.8	200.3	191.1	9.21	21.741		
2,300.0	2,300.0	2,300.6	2,300.4	5.1	4.6	-61.31	96.7	-176.7	201.4	191.8	9.65	20.875		
2,400.0	2,400.0	2,400.1	2,399.9	5.3	4.8	-61.58	96.5	-178.3	202.7	192.7	10.09	20.103		
2,500.0	2,500.0	2,501.3	2,501.0	5.5	5.0	-61.95	95.8	-179.9	203.8	193.3	10.52	19.371		
2,600.0	2,600.0	2,602.2	2,601.9	5.7	5.2	-62.20	95.3	-180.7	204.3	193.4	10.95	18.653		
2,700.0	2,700.0	2,702.6	2,702.3	6.0	5.4	-62.39	94.8	-181.3	204.5	193.2	11.39	17.960		
2,800.0	2,800.0	2,802.6	2,802.4	6.2	5.7	-62.64	94.1	-181.7	204.6	192.8	11.82	17.306		
2,900.0	2,900.0	2,902.3	2,902.0	6.4	5.9	-62.93	93.2	-182.4	204.8	192.6	12.26	16.707		
3,000.0	3,000.0	3,001.1	3,000.8	6.6	6.1	-63.29	92.3	-183.4	205.3	192.6	12.69	16.175		
3,100.0	3,100.0	3,100.0	3,099.7	6.9	6.3	-63.63	91.7	-185.0	206.5	193.4	13.13	15.732		
3,200.0	3,200.0	3,199.8	3,199.5	7.1	6.5	-64.00	91.2	-186.9	208.0	194.4	13.56	15.338		
3,300.0	3,300.0	3,298.3	3,297.9	7.3	6.7	-64.50	90.3	-189.3	209.8	195.8	14.00	14.987		
3,400.0	3,400.0	3,397.2	3,396.8	7.5	6.9	-64.99	89.8	-192.4	212.4	197.9	14.43	14.714		
3,500.0	3,500.0	3,493.9	3,493.4	7.8	7.1	-65.52	89.3	-196.1	215.7	200.8	14.87	14.509		
3,600.0	3,600.0	3,592.3	3,591.7	8.0	7.4	-66.00	89.6	-201.2	220.5	205.2	15.30	14.411		
3,700.0	3,700.0	3,691.3	3,690.5	8.2	7.6	-66.43	90.1	-206.5	225.6	209.9	15.74	14.336		
3,800.0	3,800.0	3,788.8	3,787.8	8.4	7.8	-66.91	90.6	-212.4	231.4	215.2	16.18	14.307		
3,900.0	3,900.0	3,886.4	3,885.2	8.7	8.0	-67.46	91.1	-219.5	238.3	221.7	16.62	14.340		
4,000.0	4,000.0	3,985.7	3,984.2	8.9	8.2	-68.03	91.7	-227.3	245.7	228.7	17.06	14.405		
4,100.0	4,100.0	4,088.0	4,086.2	9.1	8.5	-68.58	92.1	-234.8	252.8	235.3	17.50	14.442		
4,200.0	4,200.0	4,187.5	4,185.5	9.3	8.7	-69.14	92.1	-241.8	259.3	241.3	17.95	14.449		
4,300.0	4,300.0	4,285.0	4,282.7	9.6	8.9	-69.76	91.9	-249.1	266.3	247.9	18.39	14.481		
4,400.0	4,400.0	4,383.5	4,380.8	9.8	9.2	-70.41	91.6	-257.3	274.0	255.1	18.84	14.545		
4,500.0	4,500.0	4,482.9	4,479.9	10.0	9.4	-71.05	91.3	-265.8	282.0	262.7	19.29	14.618		
4,600.0	4,600.0	4,580.1	4,576.7	10.2	9.6	-71.65	91.1	-274.6	290.5	270.7	19.73	14.719		
4,700.0	4,700.0	4,678.8	4,675.0	10.5	9.9	-72.19	91.2	-284.0	299.6	279.4	20.18	14.841		
4,800.0	4,800.0	4,778.4	4,774.1	10.7	10.1	-72.66	91.6	-293.5	308.8	288.2	20.64	14.965		
4,900.0	4,900.0	4,878.5	4,873.7	10.9	10.4	-73.10	92.0	-303.0	318.0	296.9	21.08	15.080		
5,000.0	5,000.0	4,978.9	4,973.7	11.1	10.6	-73.50	92.5	-312.3	327.0	305.4	21.53	15.184		
5,100.0	5,100.0	5,079.9	5,074.3	11.4	10.8	-73.85	93.0	-321.2	335.6	313.6	21.98	15.264		
5,200.0	5,200.0	5,180.2	5,174.3	11.6	11.1	-74.16	93.6	-329.7	343.9	321.5	22.43	15.330		
5,300.0	5,300.0	5,281.7	5,275.4	11.8	11.3	-74.43	94.2	-338.0	351.9	329.1	22.89	15.378		
5,400.0	5,400.0	5,383.7	5,377.1	12.0	11.5	-74.57	94.8	-345.7	357.6	334.4	23.15	15.449		
5,500.0	5,499.6	5,487.2	5,480.4	12.2	11.8	-74.50	95.6	-352.7	359.0	335.5	23.52	15.263		
5,600.0	5,598.8	5,588.1	5,581.1	12.4	12.0	-74.30	95.9	-358.6	356.2	332.3	23.89	14.911		
5,700.0	5,697.1	5,686.7	5,679.5	12.6	12.2	-73.99	96.4	-364.4	350.3	326.1	24.25	14.448		
5,800.0	5,794.3	5,787.1	5,779.8	12.8	12.5	-73.58	97.4	-370.0	341.7	317.1	24.64	13.871		
5,900.0	5,890.2	5,887.5	5,880.1	13.1	12.7	-73.00	99.3	-374.0	330.5	305.4	25.09	13.171		
6,000.0	5,984.4	5,982.3	5,974.8	13.3	12.9	-72.30	102.5	-376.2	318.0	292.4	25.62	12.412		
6,100.0	6,076.8	6,070.2	6,062.6	13.7	13.1	-71.70	107.5	-377.6	307.9	281.6	26.25	11.728		
6,189.3	6,157.5	6,135.7	6,127.8	14.1	13.2	-70.29	112.3	-379.2	303.8	277.0	26.86	11.310		
6,200.0	6,167.1	6,149.0	6,141.0	14.1	13.2	-70.52	114.0	-379.8	304.1	277.2	26.96	11.279		
6,300.0	6,254.9	6,212.5	6,203.7	14.6	13.4	-69.51	123.9	-383.0	312.9	285.2	27.69	11.297		
6,400.0	6,341.2	6,285.8	6,275.7	15.1	13.6	-68.69	136.6	-386.9	332.1	303.6	28.48	11.659		
6,500.0	6,427.5	6,340.0	6,328.4	15.8	13.7	-67.66	148.8	-390.6	363.8	334.6	29.20	12.460		
6,600.0	6,513.8	6,403.1	6,388.9	16.4	13.9	-66.66	166.5	-394.4	406.3	376.4	29.90	13.589		
6,700.0	6,600.1	6,454.4	6,437.1	17.1	14.0	-65.25	183.8	-395.2	457.8	427.2	30.55	14.983		
6,800.0	6,686.4	6,510.5	6,489.0	17.9	14.2	-63.45	205.2	-394.7	516.6	485.4	31.17	16.575		
6,900.0	6,774.3	6,595.5	6,567.7	18.6	14.4	-61.88	237.1	-392.9	578.8	547.7	31.10	18.613		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 11-159HC	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:	0.0 ft
Survey Program: 229-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 Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7,000.0	6,867.9	6,661.9	6,629.4	19.0	14.6	173.65	261.5	-393.8	642.1	611.2	30.89	20.789		
7,100.0	6,963.2	6,745.5	6,706.5	19.2	14.9	-138.20	293.8	-396.1	704.7	673.5	31.21	22.577		
7,200.0	7,055.2	6,817.3	6,773.3	19.3	15.1	-107.91	319.9	-394.3	761.8	730.1	31.66	24.058		
7,300.0	7,139.3	6,905.8	6,854.2	19.3	15.3	-92.38	350.5	-376.2	813.5	781.5	32.00	25.425		
7,400.0	7,211.2	6,970.9	6,911.0	19.3	15.5	-83.01	371.4	-352.2	858.1	826.0	32.11	26.727		
7,500.0	7,267.1	7,031.7	6,960.1	19.3	15.6	-77.37	391.2	-322.6	896.8	864.6	32.25	27.809		
7,600.0	7,304.2	7,182.4	7,062.8	19.5	15.8	-77.08	429.9	-220.5	923.6	890.4	33.14	27.871		
7,700.0	7,320.7	7,348.0	7,130.7	20.1	16.6	-78.14	448.6	-71.8	933.0	897.7	35.29	26.437		
7,800.0	7,321.4	7,411.5	7,140.5	21.2	17.2	-78.67	451.3	-9.3	934.4	897.1	37.24	25.089		
7,900.0	7,321.4	7,483.0	7,141.6	22.7	18.1	-78.78	456.0	62.1	939.8	900.2	39.60	23.732		
8,000.0	7,321.4	7,570.0	7,139.8	24.5	19.4	-78.75	462.3	148.8	946.9	904.3	42.59	22.236		
8,100.0	7,321.4	7,652.2	7,135.6	26.4	20.9	-78.59	469.7	230.6	956.3	910.5	45.85	20.859		
8,200.0	7,321.4	7,808.6	7,131.3	28.5	24.0	-78.45	480.5	386.5	963.4	912.5	50.90	18.928		
8,300.0	7,321.4	7,919.8	7,128.0	30.7	26.4	-78.28	482.7	497.6	965.5	910.1	55.41	17.425		
8,400.0	7,321.4	8,054.4	7,127.0	33.0	29.5	-78.25	484.8	632.2	967.0	906.3	60.70	15.930		
8,500.0	7,321.4	8,164.9	7,127.1	35.3	32.1	-78.23	483.5	742.6	965.5	899.9	65.63	14.711		
8,600.0	7,321.4	8,288.9	7,129.2	37.8	35.1	-78.30	479.3	866.6	961.3	890.3	71.05	13.530		
8,700.0	7,321.4	8,359.1	7,128.8	40.2	36.9	-78.24	477.2	936.8	958.2	883.0	75.20	12.741		
8,800.0	7,321.4	8,459.6	7,127.8	42.7	39.4	-78.17	476.3	1,037.3	957.1	876.9	80.17	11.939		
8,900.0	7,321.4	8,573.4	7,127.9	45.3	42.4	-78.14	473.5	1,151.0	954.3	868.7	85.56	11.153		
9,000.0	7,321.4	8,656.2	7,127.2	47.8	44.5	-78.07	471.6	1,233.8	951.8	861.7	90.19	10.554		
9,048.8	7,321.4	8,692.6	7,126.4	49.1	45.5	-78.02	471.3	1,270.1	951.5	859.2	92.35	10.304		
9,100.0	7,321.4	8,733.0	7,125.3	50.4	46.5	-77.95	471.5	1,310.5	951.9	857.2	94.68	10.054		
9,200.0	7,321.4	8,845.9	7,123.3	53.1	49.5	-77.84	472.3	1,423.5	952.6	852.5	100.14	9.513		
9,279.5	7,321.4	8,923.3	7,122.5	55.2	51.6	-77.78	472.1	1,500.9	952.3	848.1	104.20	9.139		
9,300.0	7,321.4	8,937.2	7,122.5	55.7	51.9	-77.78	472.2	1,514.7	952.4	847.3	105.09	9.062		
9,400.0	7,321.4	9,031.0	7,123.2	58.3	54.4	-77.84	474.0	1,608.5	953.7	843.5	110.17	8.656		
9,500.0	7,321.4	9,133.9	7,123.2	61.0	57.2	-77.86	475.7	1,711.4	954.9	839.4	115.50	8.268		
9,600.0	7,321.4	9,255.8	7,124.2	63.7	60.5	-77.92	476.4	1,833.3	955.0	833.6	121.38	7.868		
9,700.0	7,321.4	9,359.1	7,124.2	66.4	63.3	-77.90	474.8	1,936.5	953.1	826.3	126.76	7.519		
9,800.0	7,321.4	9,475.0	7,123.8	69.1	66.4	-77.85	472.9	2,052.5	951.3	818.8	132.47	7.181		
9,900.0	7,321.4	9,570.1	7,123.0	71.8	69.0	-77.75	470.1	2,147.5	948.2	810.6	137.63	6.890		
10,000.0	7,321.4	9,663.4	7,119.9	74.5	71.6	-77.54	467.8	2,240.7	946.2	803.5	142.68	6.632		
10,100.0	7,321.4	9,748.0	7,119.4	77.2	73.9	-77.49	466.7	2,325.3	944.6	797.0	147.58	6.401		
10,114.0	7,321.4	9,758.1	7,119.4	77.6	74.1	-77.49	466.7	2,335.4	944.6	796.4	148.22	6.373		
10,200.0	7,321.4	9,842.3	7,118.8	79.9	76.4	-77.45	467.2	2,419.6	944.9	792.2	152.76	6.186		
10,300.0	7,321.4	9,944.9	7,117.5	82.6	79.3	-77.37	467.0	2,522.2	944.6	786.5	158.14	5.973		
10,304.6	7,321.4	9,948.7	7,117.4	82.8	79.4	-77.37	467.0	2,526.0	944.6	786.2	158.37	5.965		
10,400.0	7,321.4	10,047.0	7,118.4	85.4	82.1	-77.43	467.6	2,624.2	944.7	781.1	163.60	5.774		
10,434.4	7,321.4	10,078.5	7,119.0	86.3	82.9	-77.47	467.8	2,655.8	944.6	779.2	165.39	5.711		
10,500.0	7,321.4	10,134.5	7,119.4	88.1	84.5	-77.49	468.4	2,711.8	944.9	776.3	168.67	5.602		
10,600.0	7,321.4	10,207.8	7,119.2	90.9	86.5	-77.51	470.4	2,785.0	947.3	774.0	173.33	5.465		
10,700.0	7,321.4	10,311.2	7,118.8	93.6	89.3	-77.54	475.3	2,888.3	951.7	772.8	178.82	5.322		
10,800.0	7,321.4	10,415.8	7,119.0	96.4	92.2	-77.59	478.4	2,992.9	954.1	769.8	184.36	5.175		
10,900.0	7,321.4	10,535.8	7,117.8	99.1	95.5	-77.55	481.5	3,112.8	956.6	766.3	190.27	5.027		
11,000.0	7,321.4	10,653.3	7,118.0	101.9	98.8	-77.55	481.3	3,230.3	955.9	759.8	196.15	4.873		
11,100.0	7,321.4	10,763.0	7,117.8	104.6	101.8	-77.53	480.3	3,340.1	954.7	752.9	201.82	4.731		
11,200.0	7,321.4	10,859.5	7,118.3	107.4	104.5	-77.54	479.6	3,436.5	953.5	746.4	207.15	4.603		
11,300.0	7,321.4	10,951.3	7,119.6	110.1	107.0	-77.60	479.1	3,528.3	952.3	739.9	212.39	4.484		
11,349.9	7,321.4	10,994.2	7,120.1	111.5	108.2	-77.64	479.2	3,571.2	952.1	737.2	214.93	4.430		
11,400.0	7,321.4	11,036.8	7,120.6	112.9	109.4	-77.67	479.7	3,613.8	952.3	734.9	217.46	4.379		
11,500.0	7,321.4	11,129.6	7,120.3	115.7	112.0	-77.67	481.2	3,706.6	953.7	731.0	222.69	4.282		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 11-159HC	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:	0.0 ft
Survey Program: 229-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		
11,600.0	7,321.4	11,220.8	7,117.9	118.4	114.5	-77.54	482.9	3,797.7	955.7	727.9	227.78	4.196		
11,700.0	7,321.4	11,336.8	7,115.5	121.2	117.7	-77.43	485.0	3,913.6	957.6	724.0	233.54	4.100		
11,800.0	7,321.4	11,432.8	7,113.3	124.0	120.4	-77.30	486.1	4,009.6	958.8	720.0	238.75	4.016		
11,900.0	7,321.4	11,530.0	7,113.1	126.8	123.1	-77.30	487.6	4,106.8	960.0	715.9	244.10	3.933		
12,000.0	7,321.4	11,639.7	7,115.1	129.5	126.1	-77.44	488.9	4,216.5	960.3	710.4	249.91	3.843		
12,083.0	7,321.4	11,715.0	7,115.1	131.8	128.2	-77.44	490.0	4,291.8	961.2	707.0	254.22	3.781 SF		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-159HC
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 11-159HC	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 11-162HN - 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		
0.0	0.0	0.0	0.0	0.0	0.0	-92.08	-1.1	-30.1	30.2					
100.0	100.0	100.0	100.0	0.1	0.1	-92.08	-1.1	-30.1	30.2	29.9	0.22	134.227		
200.0	200.0	200.0	200.0	0.3	0.3	-92.08	-1.1	-30.1	30.2	29.5	0.67	44.742		
300.0	300.0	300.0	300.0	0.6	0.6	-92.08	-1.1	-30.1	30.2	29.0	1.12	26.845		
400.0	400.0	400.0	400.0	0.8	0.8	-92.08	-1.1	-30.1	30.2	28.6	1.57	19.175		
500.0	500.0	500.0	500.0	1.0	1.0	-92.08	-1.1	-30.1	30.2	28.1	2.02	14.914		
600.0	600.0	600.0	600.0	1.2	1.2	-92.08	-1.1	-30.1	30.2	27.7	2.47	12.202		
700.0	700.0	700.0	700.0	1.5	1.5	-92.08	-1.1	-30.1	30.2	27.2	2.92	10.325		
800.0	800.0	800.0	800.0	1.7	1.7	-92.08	-1.1	-30.1	30.2	26.8	3.37	8.948		
900.0	900.0	900.0	900.0	1.9	1.9	-92.08	-1.1	-30.1	30.2	26.3	3.82	7.896		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-92.08	-1.1	-30.1	30.2	25.9	4.27	7.065		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-92.08	-1.1	-30.1	30.2	25.4	4.72	6.392		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-92.08	-1.1	-30.1	30.2	25.0	5.17	5.836		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-92.08	-1.1	-30.1	30.2	24.6	5.62	5.369		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-92.08	-1.1	-30.1	30.2	24.1	6.07	4.971		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-92.08	-1.1	-30.1	30.2	23.7	6.52	4.629		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-92.08	-1.1	-30.1	30.2	23.2	6.97	4.330		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-92.08	-1.1	-30.1	30.2	22.8	7.42	4.067		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-92.08	-1.1	-30.1	30.2	22.3	7.87	3.835		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-92.08	-1.1	-30.1	30.2	21.9	8.32	3.628		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-92.08	-1.1	-30.1	30.2	21.4	8.77	3.442		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-92.08	-1.1	-30.1	30.2	21.0	9.22	3.274		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-92.08	-1.1	-30.1	30.2	20.5	9.66	3.122		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-92.08	-1.1	-30.1	30.2	20.1	10.11	2.983		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-92.08	-1.1	-30.1	30.2	19.6	10.56	2.856		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-92.08	-1.1	-30.1	30.2	19.2	11.01	2.739		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-92.08	-1.1	-30.1	30.2	18.7	11.46	2.632		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-92.08	-1.1	-30.1	30.2	18.3	11.91	2.533		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-92.08	-1.1	-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	-92.08	-1.1	-30.1	30.2	17.4	12.81	2.355		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-92.08	-1.1	-30.1	30.2	16.9	13.26	2.275		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-92.08	-1.1	-30.1	30.2	16.5	13.71	2.200		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-92.08	-1.1	-30.1	30.2	16.0	14.16	2.131		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-92.08	-1.1	-30.1	30.2	15.6	14.61	2.065		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-92.08	-1.1	-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	-92.08	-1.1	-30.1	30.2	14.7	15.51	1.945		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-92.08	-1.1	-30.1	30.2	14.2	15.96	1.891		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-92.08	-1.1	-30.1	30.2	13.8	16.41	1.839		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-92.08	-1.1	-30.1	30.2	13.3	16.86	1.790		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-92.08	-1.1	-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	-92.08	-1.1	-30.1	30.2	12.4	17.76	1.699		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-92.08	-1.1	-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	-92.08	-1.1	-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	-92.08	-1.1	-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	-92.08	-1.1	-30.1	30.2	10.6	19.55	1.543		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	-92.08	-1.1	-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	-92.08	-1.1	-30.1	30.2	9.7	20.45	1.475	Level 3	
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	-92.08	-1.1	-30.1	30.2	9.3	20.90	1.443	Level 3	
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	-92.08	-1.1	-30.1	30.2	8.8	21.35	1.413	Level 3	
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	-92.08	-1.1	-30.1	30.2	8.4	21.80	1.384	Level 3, CC, ES, SF	
5,000.0	5,000.0	4,999.1	4,999.1	11.1	11.1	-94.33	-2.4	-31.2	31.3	9.1	22.23	1.407	Level 3	
5,100.0	5,100.0	5,097.6	5,097.4	11.4	11.3	-101.96	-7.5	-35.4	36.2	13.6	22.63	1.602		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 11-159HC	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 11-162HN - 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 Tooface (")	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	5,195.2	5,194.2	11.6	11.5	-111.08	-16.4	-42.6	46.1	23.0	23.03	2.001		
5,300.0	5,300.0	5,291.3	5,289.0	11.8	11.6	-118.74	-29.0	-52.9	61.3	37.9	23.43	2.616		
5,400.0	5,400.0	5,386.1	5,381.5	12.0	11.8	-2.34	-45.0	-65.9	79.3	55.6	23.76	3.339		
5,500.0	5,499.6	5,480.0	5,472.0	12.2	12.0	-6.72	-64.3	-81.6	97.5	73.5	24.03	4.058		
5,600.0	5,598.8	5,572.9	5,560.3	12.4	12.3	-10.41	-86.8	-99.9	115.8	91.5	24.26	4.773		
5,700.0	5,697.1	5,664.9	5,646.2	12.6	12.6	-13.67	-112.3	-120.7	134.2	109.7	24.45	5.488		
5,800.0	5,794.3	5,756.0	5,729.6	12.8	12.9	-16.64	-140.7	-143.9	152.8	128.1	24.62	6.206		
5,900.0	5,890.2	5,846.2	5,810.3	13.1	13.3	-19.39	-171.8	-169.2	171.5	146.8	24.77	6.926		
6,000.0	5,984.4	5,936.3	5,889.0	13.3	13.7	-21.99	-205.8	-196.9	190.5	165.6	24.92	7.645		
6,100.0	6,076.8	6,034.4	5,973.8	13.7	14.2	-24.81	-244.1	-228.1	207.1	181.9	25.12	8.241		
6,200.0	6,167.1	6,132.9	6,058.9	14.1	14.8	-27.84	-282.5	-259.4	219.5	194.1	25.41	8.639		
6,300.0	6,254.9	6,231.5	6,144.2	14.6	15.4	-31.21	-321.0	-290.7	228.1	202.3	25.83	8.830		
6,400.0	6,341.2	6,330.2	6,229.4	15.1	16.1	-34.87	-359.5	-322.0	234.9	208.2	26.74	8.786		
6,500.0	6,427.5	6,428.8	6,314.7	15.8	16.8	-38.33	-398.0	-353.4	242.6	214.8	27.80	8.725		
6,600.0	6,513.8	6,527.5	6,399.9	16.4	17.6	-41.57	-436.4	-384.7	251.1	222.1	28.99	8.662		
6,700.0	6,600.1	6,626.1	6,485.2	17.1	18.3	-44.59	-474.9	-416.1	260.4	230.1	30.29	8.596		
6,800.0	6,686.4	6,724.7	6,570.4	17.9	19.1	-47.40	-513.4	-447.4	270.3	238.6	31.69	8.529		
6,900.0	6,774.3	6,824.5	6,657.1	18.6	19.9	-40.22	-552.5	-477.4	281.2	248.0	33.18	8.473		
7,000.0	6,867.9	6,924.6	6,747.6	19.0	20.4	-13.15	-593.3	-489.3	293.1	258.8	34.32	8.539		
7,100.0	6,963.2	7,023.2	6,836.7	19.2	20.8	23.75	-633.4	-478.9	305.4	270.4	35.02	8.721		
7,200.0	7,055.2	7,120.4	6,920.6	19.3	21.0	45.31	-671.0	-447.7	317.4	282.2	35.27	9.001		
7,300.0	7,139.3	7,216.6	6,995.4	19.3	21.1	54.51	-704.5	-397.7	328.5	293.4	35.15	9.345		
7,400.0	7,211.2	7,312.0	7,058.1	19.3	21.1	58.52	-732.6	-331.8	338.0	303.1	34.90	9.687		
7,500.0	7,267.1	7,406.8	7,106.2	19.3	21.1	60.32	-754.0	-253.2	345.5	310.6	34.84	9.916		
7,600.0	7,304.2	7,501.3	7,137.9	19.5	20.9	61.10	-768.0	-165.5	350.4	315.1	35.35	9.914		
7,700.0	7,320.7	7,595.6	7,151.8	20.1	20.7	61.37	-773.9	-72.6	352.7	316.0	36.67	9.617		
7,800.0	7,321.4	7,694.1	7,152.4	21.2	20.5	61.38	-773.9	25.9	352.8	314.0	38.82	9.089		
7,900.0	7,321.4	7,794.1	7,152.4	22.7	22.0	61.38	-773.6	125.9	352.8	311.3	41.50	8.503		
8,000.0	7,321.4	7,894.1	7,152.4	24.5	23.8	61.38	-773.2	225.9	352.9	308.3	44.57	7.917		
8,100.0	7,321.4	7,994.1	7,152.4	26.4	25.8	61.39	-772.9	325.9	352.9	304.9	47.96	7.358		
8,200.0	7,321.4	8,094.1	7,152.4	28.5	27.9	61.39	-772.5	425.9	352.9	301.3	51.61	6.838		
8,300.0	7,321.4	8,194.1	7,152.4	30.7	30.2	61.39	-772.2	525.9	353.0	297.5	55.47	6.364		
8,400.0	7,321.4	8,294.1	7,152.4	33.0	32.5	61.40	-771.9	625.9	353.0	293.5	59.49	5.934		
8,500.0	7,321.4	8,394.1	7,152.4	35.3	34.8	61.40	-771.5	725.9	353.1	289.4	63.65	5.547		
8,600.0	7,321.4	8,494.1	7,152.4	37.8	37.3	61.40	-771.2	825.9	353.1	285.2	67.91	5.199		
8,700.0	7,321.4	8,594.1	7,152.4	40.2	39.8	61.41	-770.9	925.9	353.1	280.9	72.27	4.886		
8,800.0	7,321.4	8,694.1	7,152.4	42.7	42.3	61.41	-770.5	1,025.9	353.2	276.5	76.70	4.604		
8,900.0	7,321.4	8,794.1	7,152.4	45.3	44.8	61.41	-770.2	1,125.9	353.2	272.0	81.20	4.350		
9,000.0	7,321.4	8,894.1	7,152.4	47.8	47.4	61.42	-769.9	1,225.9	353.2	267.5	85.74	4.120		
9,100.0	7,321.4	8,994.1	7,152.4	50.4	50.0	61.42	-769.5	1,325.9	353.3	262.9	90.34	3.911		
9,200.0	7,321.4	9,094.1	7,152.4	53.1	52.6	61.42	-769.2	1,425.9	353.3	258.3	94.97	3.720		
9,300.0	7,321.4	9,194.1	7,152.4	55.7	55.2	61.43	-768.9	1,525.9	353.3	253.7	99.63	3.547		
9,400.0	7,321.4	9,294.1	7,152.4	58.3	57.9	61.43	-768.5	1,625.9	353.4	249.1	104.32	3.387		
9,500.0	7,321.4	9,394.1	7,152.4	61.0	60.6	61.43	-768.2	1,725.9	353.4	244.4	109.04	3.241		
9,600.0	7,321.4	9,494.1	7,152.4	63.7	63.2	61.44	-767.9	1,825.9	353.5	239.7	113.78	3.106		
9,700.0	7,321.4	9,594.1	7,152.4	66.4	65.9	61.44	-767.5	1,925.9	353.5	234.9	118.54	2.982		
9,800.0	7,321.4	9,694.1	7,152.4	69.1	68.6	61.44	-767.2	2,025.9	353.5	230.2	123.32	2.867		
9,900.0	7,321.4	9,794.1	7,152.4	71.8	71.3	61.45	-766.9	2,125.9	353.6	225.5	128.11	2.760		
10,000.0	7,321.4	9,894.1	7,152.4	74.5	74.0	61.45	-766.5	2,225.9	353.6	220.7	132.92	2.660		
10,100.0	7,321.4	9,994.1	7,152.4	77.2	76.7	61.45	-766.2	2,325.9	353.6	215.9	137.74	2.567		
10,200.0	7,321.4	10,094.1	7,152.4	79.9	79.5	61.46	-765.8	2,425.9	353.7	211.1	142.57	2.481		
10,300.0	7,321.4	10,194.1	7,152.4	82.6	82.2	61.46	-765.5	2,525.9	353.7	206.3	147.41	2.400		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 11-159HC	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 11-162HN - 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	10,294.1	7,152.4	85.4	84.9	61.46	-765.2	2,625.9	353.7	201.5	152.25	2.323		
10,500.0	7,321.4	10,394.1	7,152.4	88.1	87.7	61.47	-764.8	2,725.9	353.8	196.7	157.11	2.252		
10,600.0	7,321.4	10,494.1	7,152.4	90.9	90.4	61.47	-764.5	2,825.9	353.8	191.8	161.98	2.184		
10,700.0	7,321.4	10,594.1	7,152.4	93.6	93.2	61.47	-764.2	2,925.9	353.9	187.0	166.85	2.121		
10,800.0	7,321.4	10,694.1	7,152.4	96.4	95.9	61.47	-763.8	3,025.9	353.9	182.2	171.72	2.061		
10,900.0	7,321.4	10,794.1	7,152.4	99.1	98.7	61.48	-763.5	3,125.9	353.9	177.3	176.61	2.004		
11,000.0	7,321.4	10,894.1	7,152.4	101.9	101.4	61.48	-763.2	3,225.9	354.0	172.5	181.50	1.950		
11,100.0	7,321.4	10,994.1	7,152.4	104.6	104.2	61.48	-762.8	3,325.9	354.0	167.6	186.39	1.899		
11,200.0	7,321.4	11,094.1	7,152.4	107.4	106.9	61.49	-762.5	3,425.9	354.0	162.8	191.29	1.851		
11,300.0	7,321.4	11,194.1	7,152.4	110.1	109.7	61.49	-762.2	3,525.9	354.1	157.9	196.19	1.805		
11,400.0	7,321.4	11,294.1	7,152.4	112.9	112.5	61.49	-761.8	3,625.9	354.1	153.0	201.10	1.761		
11,500.0	7,321.4	11,394.1	7,152.4	115.7	115.2	61.50	-761.5	3,725.9	354.1	148.1	206.01	1.719		
11,600.0	7,321.4	11,494.1	7,152.4	118.4	118.0	61.50	-761.2	3,825.9	354.2	143.3	210.92	1.679		
11,700.0	7,321.4	11,594.1	7,152.4	121.2	120.8	61.50	-760.8	3,925.9	354.2	138.4	215.84	1.641		
11,800.0	7,321.4	11,694.1	7,152.4	124.0	123.5	61.51	-760.5	4,025.9	354.3	133.5	220.76	1.605		
11,900.0	7,321.4	11,794.1	7,152.4	126.8	126.3	61.51	-760.2	4,125.9	354.3	128.6	225.68	1.570		
12,000.0	7,321.4	11,894.1	7,152.4	129.5	129.1	61.51	-759.8	4,225.9	354.3	123.7	230.61	1.536		
12,046.7	7,321.4	11,940.8	7,152.4	130.8	130.0	61.51	-759.7	4,272.6	354.3	121.8	232.54	1.524		
12,083.0	7,321.4	11,974.5	7,152.4	131.8	130.6	61.52	-759.5	4,306.3	354.4	120.4	233.97	1.515		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 11-159HC	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 11-239HN - 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 Tooface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
							+N/-S (ft)	+E/-W (ft)							
0.0	0.0	0.0	0.0	0.0	0.0	-93.14	-3.3	-59.7	59.8						
100.0	100.0	100.0	100.0	0.1	0.1	-93.14	-3.3	-59.7	59.8	59.6	0.22	266.193			
200.0	200.0	200.0	200.0	0.3	0.3	-93.14	-3.3	-59.7	59.8	59.2	0.67	88.731			
300.0	300.0	300.0	300.0	0.6	0.6	-93.14	-3.3	-59.7	59.8	58.7	1.12	53.239			
400.0	400.0	400.0	400.0	0.8	0.8	-93.14	-3.3	-59.7	59.8	58.3	1.57	38.028			
500.0	500.0	500.0	500.0	1.0	1.0	-93.14	-3.3	-59.7	59.8	57.8	2.02	29.577			
600.0	600.0	600.0	600.0	1.2	1.2	-93.14	-3.3	-59.7	59.8	57.4	2.47	24.199			
700.0	700.0	700.0	700.0	1.5	1.5	-93.14	-3.3	-59.7	59.8	56.9	2.92	20.476			
800.0	800.0	800.0	800.0	1.7	1.7	-93.14	-3.3	-59.7	59.8	56.5	3.37	17.746			
900.0	900.0	900.0	900.0	1.9	1.9	-93.14	-3.3	-59.7	59.8	56.0	3.82	15.658			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-93.14	-3.3	-59.7	59.8	55.6	4.27	14.010			
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-93.14	-3.3	-59.7	59.8	55.1	4.72	12.676			
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-93.14	-3.3	-59.7	59.8	54.7	5.17	11.574			
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-93.14	-3.3	-59.7	59.8	54.2	5.62	10.648			
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-93.14	-3.3	-59.7	59.8	53.8	6.07	9.859			
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-93.14	-3.3	-59.7	59.8	53.3	6.52	9.179			
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-93.14	-3.3	-59.7	59.8	52.9	6.97	8.587			
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-93.14	-3.3	-59.7	59.8	52.4	7.42	8.066			
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-93.14	-3.3	-59.7	59.8	52.0	7.87	7.606			
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-93.14	-3.3	-59.7	59.8	51.5	8.32	7.194			
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-93.14	-3.3	-59.7	59.8	51.1	8.77	6.825			
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-93.14	-3.3	-59.7	59.8	50.6	9.22	6.493			
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-93.14	-3.3	-59.7	59.8	50.2	9.66	6.191			
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-93.14	-3.3	-59.7	59.8	49.7	10.11	5.915			
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-93.14	-3.3	-59.7	59.8	49.3	10.56	5.664			
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-93.14	-3.3	-59.7	59.8	48.8	11.01	5.433			
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-93.14	-3.3	-59.7	59.8	48.4	11.46	5.219			
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-93.14	-3.3	-59.7	59.8	47.9	11.91	5.023			
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-93.14	-3.3	-59.7	59.8	47.5	12.36	4.840			
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-93.14	-3.3	-59.7	59.8	47.0	12.81	4.670			
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-93.14	-3.3	-59.7	59.8	46.6	13.26	4.512			
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-93.14	-3.3	-59.7	59.8	46.1	13.71	4.364			
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-93.14	-3.3	-59.7	59.8	45.7	14.16	4.225			
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-93.14	-3.3	-59.7	59.8	45.2	14.61	4.095			
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-93.14	-3.3	-59.7	59.8	44.8	15.06	3.973			
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-93.14	-3.3	-59.7	59.8	44.3	15.51	3.858			
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-93.14	-3.3	-59.7	59.8	43.9	15.96	3.749			
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-93.14	-3.3	-59.7	59.8	43.4	16.41	3.646			
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-93.14	-3.3	-59.7	59.8	43.0	16.86	3.549			
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-93.14	-3.3	-59.7	59.8	42.5	17.31	3.457			
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-93.14	-3.3	-59.7	59.8	42.1	17.76	3.370			
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-93.14	-3.3	-59.7	59.8	41.6	18.21	3.286 CC, ES			
4,200.0	4,200.0	4,198.7	4,198.6	9.3	9.3	-95.35	-5.7	-60.6	60.9	42.3	18.62	3.270 SF			
4,300.0	4,300.0	4,296.9	4,296.5	9.6	9.5	-101.44	-12.8	-63.2	64.6	45.6	19.02	3.397			
4,400.0	4,400.0	4,394.0	4,392.8	9.8	9.6	-109.93	-24.5	-67.5	72.2	52.8	19.41	3.718			
4,500.0	4,500.0	4,489.6	4,486.9	10.0	9.8	-118.87	-40.5	-73.4	84.8	65.0	19.81	4.281			
4,600.0	4,600.0	4,583.3	4,578.2	10.2	10.0	-126.82	-60.4	-80.7	103.1	82.9	20.21	5.102			
4,700.0	4,700.0	4,674.7	4,666.0	10.5	10.2	-133.20	-83.8	-89.3	127.1	106.5	20.62	6.164			
4,800.0	4,800.0	4,763.4	4,750.1	10.7	10.4	-138.11	-110.4	-99.0	156.4	135.4	21.04	7.434			
4,900.0	4,900.0	4,849.3	4,830.2	10.9	10.7	-141.83	-139.5	-109.7	190.7	169.2	21.49	8.875			
5,000.0	5,000.0	4,932.0	4,906.0	11.1	11.0	-144.65	-170.8	-121.1	229.5	207.6	21.95	10.455			
5,100.0	5,100.0	5,011.6	4,977.4	11.4	11.3	-146.82	-203.7	-133.2	272.5	250.1	22.44	12.144			

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 11-159HC
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 11-159HC	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 11-239HN - 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	5,087.9	5,044.4	11.6	11.7	-148.50	-237.9	-145.7	319.4	296.5	22.96	13.914			
5,300.0	5,300.0	5,170.1	5,115.4	11.8	12.2	-149.97	-276.8	-160.0	369.1	345.6	23.53	15.687			
5,400.0	5,400.0	5,257.3	5,190.7	12.0	12.7	-28.54	-318.2	-175.2	417.2	393.9	23.29	17.911			
5,500.0	5,499.6	5,346.5	5,267.6	12.2	13.2	-29.27	-360.5	-190.7	461.4	437.8	23.63	19.526			
5,600.0	5,598.8	5,437.2	5,345.9	12.4	13.9	-30.14	-403.6	-206.5	501.7	477.8	23.95	20.950			
5,700.0	5,697.1	5,529.3	5,425.3	12.6	14.5	-31.14	-447.3	-222.5	538.2	514.0	24.25	22.190			
5,800.0	5,794.3	5,622.5	5,505.7	12.8	15.2	-32.28	-491.6	-238.7	570.9	546.3	24.55	23.251			
5,900.0	5,890.2	5,716.5	5,586.8	13.1	15.9	-33.57	-536.2	-255.1	599.8	575.0	24.85	24.133			
6,000.0	5,984.4	5,811.2	5,668.5	13.3	16.6	-35.02	-581.2	-271.6	625.2	600.0	25.18	24.830			
6,100.0	6,076.8	5,906.2	5,750.4	13.7	17.4	-36.63	-626.3	-288.1	647.0	621.5	25.54	25.333			
6,200.0	6,167.1	6,001.2	5,832.4	14.1	18.2	-38.42	-671.4	-304.7	665.7	639.7	25.98	25.624			
6,300.0	6,254.9	6,096.1	5,914.3	14.6	19.0	-40.39	-716.4	-321.2	681.3	654.8	26.52	25.687			
6,400.0	6,341.2	6,190.7	5,995.9	15.1	19.8	-42.69	-761.4	-337.7	695.7	668.3	27.40	25.390			
6,500.0	6,427.5	6,285.3	6,077.5	15.8	20.6	-44.93	-806.3	-354.1	711.2	682.8	28.40	25.047			
6,600.0	6,513.8	6,380.0	6,159.2	16.4	21.4	-47.08	-851.2	-370.6	727.9	698.4	29.48	24.688			
6,700.0	6,600.1	6,474.6	6,240.8	17.1	22.3	-49.14	-896.2	-387.1	745.5	714.9	30.66	24.319			
6,800.0	6,686.4	6,569.2	6,322.4	17.9	23.1	-51.10	-941.1	-403.5	764.2	732.3	31.91	23.945			
6,900.0	6,774.3	6,664.7	6,404.8	18.6	24.0	-44.13	-986.5	-420.2	783.8	750.4	33.41	23.460			
7,000.0	6,867.9	6,762.5	6,489.2	19.0	24.9	-16.69	-1,032.9	-437.2	803.6	768.9	34.64	23.195			
7,100.0	6,963.2	6,858.1	6,571.6	19.2	25.7	22.09	-1,078.3	-453.8	822.7	787.3	35.36	23.268			
7,200.0	7,055.2	6,946.4	6,647.8	19.3	26.5	46.42	-1,120.2	-469.2	841.7	806.0	35.66	23.600			
7,300.0	7,139.3	7,026.6	6,717.0	19.3	27.3	58.51	-1,158.3	-482.6	862.5	826.7	35.82	24.081			
7,400.0	7,211.2	7,122.2	6,800.7	19.3	27.9	65.55	-1,204.3	-484.4	885.9	849.9	35.99	24.612			
7,500.0	7,267.1	7,244.9	6,905.0	19.3	28.6	70.66	-1,261.6	-456.5	910.4	874.0	36.38	25.024			
7,600.0	7,304.2	7,421.4	7,034.5	19.5	29.3	75.53	-1,332.6	-362.1	933.0	895.8	37.16	25.110			
7,700.0	7,320.7	7,687.3	7,144.8	20.1	29.6	79.45	-1,392.7	-132.2	946.6	907.4	39.20	24.146			
7,800.0	7,321.4	7,847.2	7,152.4	21.2	29.6	79.73	-1,396.6	27.1	947.5	905.5	42.03	22.542			
7,900.0	7,321.4	7,947.2	7,152.4	22.7	29.8	79.73	-1,396.3	127.1	947.7	902.8	44.88	21.115			
8,000.0	7,321.4	8,047.2	7,152.4	24.5	30.1	79.73	-1,396.1	227.1	947.8	899.6	48.20	19.666			
8,100.0	7,321.4	8,147.2	7,152.4	26.4	30.8	79.73	-1,395.8	327.1	947.9	896.1	51.89	18.269			
8,200.0	7,321.4	8,247.2	7,152.4	28.5	31.8	79.73	-1,395.6	427.1	948.1	892.2	55.89	16.965			
8,300.0	7,321.4	8,347.2	7,152.4	30.7	33.2	79.73	-1,395.3	527.1	948.2	888.1	60.12	15.771			
8,400.0	7,321.4	8,447.2	7,152.4	33.0	35.0	79.73	-1,395.1	627.1	948.3	883.8	64.56	14.689			
8,500.0	7,321.4	8,547.2	7,152.4	35.3	36.9	79.74	-1,394.8	727.1	948.5	879.3	69.15	13.716			
8,600.0	7,321.4	8,647.2	7,152.4	37.8	39.1	79.74	-1,394.6	827.1	948.6	874.7	73.87	12.841			
8,700.0	7,321.4	8,747.2	7,152.4	40.2	41.3	79.74	-1,394.4	927.1	948.7	870.0	78.70	12.056			
8,800.0	7,321.4	8,847.2	7,152.4	42.7	43.6	79.74	-1,394.1	1,027.1	948.9	865.2	83.61	11.349			
8,900.0	7,321.4	8,947.2	7,152.4	45.3	46.0	79.74	-1,393.9	1,127.1	949.0	860.4	88.59	10.712			
9,000.0	7,321.4	9,047.2	7,152.4	47.8	48.5	79.74	-1,393.6	1,227.1	949.1	855.5	93.64	10.136			
9,100.0	7,321.4	9,147.2	7,152.4	50.4	51.0	79.74	-1,393.4	1,327.1	949.2	850.5	98.73	9.614			
9,200.0	7,321.4	9,247.2	7,152.4	53.1	53.5	79.75	-1,393.1	1,427.1	949.4	845.5	103.87	9.140			
9,300.0	7,321.4	9,347.2	7,152.4	55.7	56.0	79.75	-1,392.9	1,527.1	949.5	840.5	109.05	8.707			
9,400.0	7,321.4	9,447.2	7,152.4	58.3	58.6	79.75	-1,392.7	1,627.1	949.6	835.4	114.26	8.311			
9,500.0	7,321.4	9,547.2	7,152.4	61.0	61.2	79.75	-1,392.4	1,727.1	949.8	830.3	119.50	7.948			
9,600.0	7,321.4	9,647.2	7,152.4	63.7	63.8	79.75	-1,392.2	1,827.1	949.9	825.1	124.77	7.613			
9,700.0	7,321.4	9,747.2	7,152.4	66.4	66.5	79.75	-1,391.9	1,927.1	950.0	820.0	130.05	7.305			
9,800.0	7,321.4	9,847.2	7,152.4	69.1	69.1	79.75	-1,391.7	2,027.1	950.2	814.8	135.36	7.020			
9,900.0	7,321.4	9,947.2	7,152.4	71.8	71.8	79.76	-1,391.4	2,127.1	950.3	809.6	140.68	6.755			
10,000.0	7,321.4	10,047.2	7,152.4	74.5	74.4	79.76	-1,391.2	2,227.1	950.4	804.4	146.02	6.509			
10,100.0	7,321.4	10,147.2	7,152.4	77.2	77.1	79.76	-1,391.0	2,327.1	950.6	799.2	151.37	6.280			
10,200.0	7,321.4	10,247.2	7,152.4	79.9	79.8	79.76	-1,390.7	2,427.1	950.7	794.0	156.73	6.066			
10,300.0	7,321.4	10,347.2	7,152.4	82.6	82.5	79.76	-1,390.5	2,527.1	950.8	788.7	162.10	5.866			

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 11-159HC
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 11-159HC	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 11-239HN - 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	10,447.2	7,152.4	85.4	85.2	79.76	-1,390.2	2,627.1	951.0	783.5	167.49	5.678			
10,500.0	7,321.4	10,547.2	7,152.4	88.1	87.9	79.76	-1,390.0	2,727.1	951.1	778.2	172.88	5.501			
10,600.0	7,321.4	10,647.2	7,152.4	90.9	90.6	79.77	-1,389.7	2,827.1	951.2	772.9	178.28	5.336			
10,700.0	7,321.4	10,747.2	7,152.4	93.6	93.3	79.77	-1,389.5	2,927.1	951.3	767.7	183.69	5.179			
10,800.0	7,321.4	10,847.2	7,152.4	96.4	96.1	79.77	-1,389.2	3,027.1	951.5	762.4	189.10	5.032			
10,900.0	7,321.4	10,947.2	7,152.4	99.1	98.8	79.77	-1,389.0	3,127.1	951.6	757.1	194.52	4.892			
11,000.0	7,321.4	11,047.2	7,152.4	101.9	101.5	79.77	-1,388.8	3,227.1	951.7	751.8	199.95	4.760			
11,100.0	7,321.4	11,147.2	7,152.4	104.6	104.2	79.77	-1,388.5	3,327.1	951.9	746.5	205.38	4.635			
11,200.0	7,321.4	11,247.2	7,152.4	107.4	107.0	79.77	-1,388.3	3,427.1	952.0	741.2	210.82	4.516			
11,300.0	7,321.4	11,347.2	7,152.4	110.1	109.7	79.78	-1,388.0	3,527.1	952.1	735.9	216.26	4.403			
11,400.0	7,321.4	11,447.2	7,152.4	112.9	112.5	79.78	-1,387.8	3,627.1	952.3	730.6	221.71	4.295			
11,500.0	7,321.4	11,547.2	7,152.4	115.7	115.2	79.78	-1,387.5	3,727.1	952.4	725.2	227.16	4.193			
11,600.0	7,321.4	11,647.2	7,152.4	118.4	118.0	79.78	-1,387.3	3,827.1	952.5	719.9	232.61	4.095			
11,700.0	7,321.4	11,747.2	7,152.4	121.2	120.7	79.78	-1,387.1	3,927.1	952.7	714.6	238.07	4.002			
11,800.0	7,321.4	11,847.2	7,152.4	124.0	123.5	79.78	-1,386.8	4,027.1	952.8	709.3	243.53	3.912			
11,900.0	7,321.4	11,947.2	7,152.4	126.8	126.2	79.78	-1,386.6	4,127.1	952.9	703.9	248.99	3.827			
12,000.0	7,321.4	12,047.2	7,152.4	129.5	129.0	79.79	-1,386.3	4,227.1	953.0	698.6	254.46	3.745			
12,036.5	7,321.4	12,083.7	7,152.4	130.5	130.0	79.79	-1,386.2	4,263.6	953.1	696.6	256.45	3.716			
12,083.0	7,321.4	12,123.4	7,152.4	131.8	130.9	79.79	-1,386.1	4,303.3	953.2	694.6	258.58	3.686			

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 11-159HC	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 11-259HC - 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	-92.55	-4.0	-89.9	90.0						
100.0	100.0	100.0	100.0	0.1	0.1	-92.55	-4.0	-89.9	90.0	89.8	0.22	400.329			
200.0	200.0	200.0	200.0	0.3	0.3	-92.55	-4.0	-89.9	90.0	89.3	0.67	133.443			
300.0	300.0	300.0	300.0	0.6	0.6	-92.55	-4.0	-89.9	90.0	88.9	1.12	80.066			
400.0	400.0	400.0	400.0	0.8	0.8	-92.55	-4.0	-89.9	90.0	88.4	1.57	57.190			
500.0	500.0	500.0	500.0	1.0	1.0	-92.55	-4.0	-89.9	90.0	88.0	2.02	44.481			
600.0	600.0	600.0	600.0	1.2	1.2	-92.55	-4.0	-89.9	90.0	87.5	2.47	36.394			
700.0	700.0	700.0	700.0	1.5	1.5	-92.55	-4.0	-89.9	90.0	87.1	2.92	30.795			
800.0	800.0	800.0	800.0	1.7	1.7	-92.55	-4.0	-89.9	90.0	86.6	3.37	26.689			
900.0	900.0	900.0	900.0	1.9	1.9	-92.55	-4.0	-89.9	90.0	86.2	3.82	23.549			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-92.55	-4.0	-89.9	90.0	85.7	4.27	21.070			
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-92.55	-4.0	-89.9	90.0	85.3	4.72	19.063			
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-92.55	-4.0	-89.9	90.0	84.8	5.17	17.406			
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-92.55	-4.0	-89.9	90.0	84.4	5.62	16.013			
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-92.55	-4.0	-89.9	90.0	83.9	6.07	14.827			
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-92.55	-4.0	-89.9	90.0	83.5	6.52	13.804			
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-92.55	-4.0	-89.9	90.0	83.0	6.97	12.914			
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-92.55	-4.0	-89.9	90.0	82.6	7.42	12.131			
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-92.55	-4.0	-89.9	90.0	82.1	7.87	11.438			
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-92.55	-4.0	-89.9	90.0	81.7	8.32	10.820			
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-92.55	-4.0	-89.9	90.0	81.2	8.77	10.265			
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-92.55	-4.0	-89.9	90.0	80.8	9.22	9.764			
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-92.55	-4.0	-89.9	90.0	80.3	9.66	9.310			
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-92.55	-4.0	-89.9	90.0	79.9	10.11	8.896			
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-92.55	-4.0	-89.9	90.0	79.4	10.56	8.518			
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-92.55	-4.0	-89.9	90.0	79.0	11.01	8.170			
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-92.55	-4.0	-89.9	90.0	78.5	11.46	7.850			
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-92.55	-4.0	-89.9	90.0	78.1	11.91	7.553			
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-92.55	-4.0	-89.9	90.0	77.6	12.36	7.279			
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-92.55	-4.0	-89.9	90.0	77.2	12.81	7.023			
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-92.55	-4.0	-89.9	90.0	76.7	13.26	6.785			
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-92.55	-4.0	-89.9	90.0	76.3	13.71	6.563			
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-92.55	-4.0	-89.9	90.0	75.8	14.16	6.354			
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-92.55	-4.0	-89.9	90.0	75.4	14.61	6.159			
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-92.55	-4.0	-89.9	90.0	74.9	15.06	5.975			
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-92.55	-4.0	-89.9	90.0	74.5	15.51	5.802			
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-92.55	-4.0	-89.9	90.0	74.0	15.96	5.638			
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-92.55	-4.0	-89.9	90.0	73.6	16.41	5.484			
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-92.55	-4.0	-89.9	90.0	73.1	16.86	5.338 CC, ES			
3,900.0	3,900.0	3,898.5	3,898.5	8.7	8.6	-94.08	-6.5	-90.5	90.8	73.5	17.28	5.256			
4,000.0	4,000.0	3,996.5	3,996.2	8.9	8.8	-98.46	-13.8	-92.5	93.6	75.9	17.67	5.298			
4,100.0	4,100.0	4,093.5	4,092.3	9.1	9.0	-105.05	-25.7	-95.7	99.4	81.4	18.06	5.505			
4,200.0	4,200.0	4,188.9	4,186.2	9.3	9.1	-112.82	-42.1	-100.1	109.5	91.0	18.46	5.932			
4,300.0	4,300.0	4,282.5	4,277.3	9.6	9.3	-120.64	-62.6	-105.6	124.8	106.0	18.85	6.620			
4,400.0	4,400.0	4,373.7	4,365.1	9.8	9.5	-127.70	-86.6	-112.0	145.9	126.6	19.25	7.575			
4,500.0	4,500.0	4,462.3	4,449.1	10.0	9.8	-133.64	-113.8	-119.3	172.6	152.9	19.67	8.775			
4,600.0	4,600.0	4,548.0	4,529.1	10.2	10.0	-138.45	-143.7	-127.4	204.7	184.6	20.10	10.184			
4,700.0	4,700.0	4,630.7	4,604.8	10.5	10.4	-142.28	-175.8	-136.0	241.8	221.2	20.56	11.762			
4,800.0	4,800.0	4,710.2	4,676.1	10.7	10.7	-145.31	-209.5	-145.0	283.4	262.3	21.03	13.471			
4,900.0	4,900.0	4,786.4	4,743.1	10.9	11.1	-147.73	-244.6	-154.4	329.1	307.5	21.54	15.277			
5,000.0	5,000.0	4,867.8	4,813.5	11.1	11.5	-149.86	-284.3	-165.1	378.0	355.9	22.11	17.099			
5,100.0	5,100.0	4,954.1	4,887.8	11.4	12.1	-151.62	-326.5	-176.4	427.5	404.8	22.73	18.812			

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 11-159HC
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 11-159HC	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 11-259HC - 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	5,040.3	4,962.1	11.6	12.6	-153.02	-368.7	-187.7	477.3	453.9	23.38	20.415		
5,300.0	5,300.0	5,126.5	5,036.4	11.8	13.2	-154.15	-410.9	-199.0	527.2	503.1	24.06	21.910		
5,400.0	5,400.0	5,213.6	5,111.5	12.0	13.8	-32.34	-453.5	-210.5	575.3	552.0	23.27	24.721		
5,500.0	5,499.6	5,302.5	5,188.1	12.2	14.5	-32.77	-497.0	-222.1	619.7	596.1	23.66	26.198		
5,600.0	5,598.8	5,392.8	5,266.0	12.4	15.2	-33.37	-541.2	-234.0	660.4	636.4	24.02	27.494		
5,700.0	5,697.1	5,484.3	5,344.9	12.6	15.9	-34.13	-586.0	-246.0	697.4	673.0	24.37	28.618		
5,800.0	5,794.3	5,576.8	5,424.6	12.8	16.7	-35.05	-631.3	-258.2	730.8	706.1	24.71	29.576		
5,900.0	5,890.2	5,669.9	5,504.9	13.1	17.4	-36.13	-676.9	-270.4	760.6	735.5	25.05	30.367		
6,000.0	5,984.4	5,763.6	5,585.6	13.3	18.2	-37.36	-722.7	-282.7	786.9	761.6	25.40	30.984		
6,100.0	6,076.8	5,857.4	5,666.5	13.7	19.0	-38.75	-768.6	-295.0	810.1	784.3	25.79	31.413		
6,200.0	6,167.1	5,951.2	5,747.4	14.1	19.9	-40.30	-814.5	-307.3	830.1	803.8	26.24	31.635		
6,300.0	6,254.9	6,044.6	5,827.9	14.6	20.7	-42.00	-860.3	-319.6	847.3	820.5	26.79	31.629		
6,400.0	6,341.2	6,137.8	5,908.2	15.1	21.5	-44.06	-905.9	-331.8	863.3	835.6	27.63	31.239		
6,500.0	6,427.5	6,230.9	5,988.5	15.8	22.3	-46.08	-951.4	-344.0	880.5	851.9	28.59	30.794		
6,600.0	6,513.8	6,324.0	6,068.8	16.4	23.2	-48.03	-997.0	-356.3	898.9	869.2	29.64	30.330		
6,700.0	6,600.1	6,417.2	6,149.1	17.1	24.0	-49.91	-1,042.6	-368.5	918.3	887.5	30.76	29.853		
6,800.0	6,686.4	6,510.3	6,229.4	17.9	24.9	-51.72	-1,088.2	-380.7	938.7	906.8	31.97	29.367		
6,900.0	6,774.3	6,604.5	6,310.6	18.6	25.7	-44.82	-1,134.3	-393.1	960.2	926.7	33.43	28.720		
7,000.0	6,867.9	6,701.9	6,394.5	19.0	26.6	-17.83	-1,182.0	-405.9	981.6	946.9	34.73	28.262		
7,100.0	6,963.2	6,797.9	6,477.3	19.2	27.5	20.34	-1,229.0	-418.5	1,001.8	966.2	35.54	28.189		
7,200.0	7,055.2	6,887.7	6,554.8	19.3	28.4	44.09	-1,272.9	-430.3	1,020.7	984.8	35.88	28.450		
7,300.0	7,139.3	6,966.7	6,622.8	19.3	29.1	55.67	-1,311.6	-440.6	1,039.8	1,003.8	35.97	28.908		
7,400.0	7,211.2	7,030.8	6,678.1	19.3	29.7	61.41	-1,342.9	-449.1	1,060.9	1,024.8	36.04	29.437		
7,500.0	7,267.1	7,076.7	6,717.7	19.3	30.1	63.50	-1,365.4	-455.1	1,085.6	1,049.5	36.17	30.014		
7,600.0	7,304.2	7,102.0	6,739.5	19.5	30.4	62.55	-1,377.8	-458.4	1,115.0	1,078.8	36.22	30.783		
7,700.0	7,320.7	7,105.6	6,742.6	20.1	30.4	58.87	-1,379.6	-458.9	1,148.5	1,112.6	35.89	31.997		
7,800.0	7,321.4	7,093.0	6,731.8	21.2	30.3	56.98	-1,373.4	-457.2	1,186.1	1,149.7	36.37	32.614		
7,900.0	7,321.4	7,079.7	6,720.3	22.7	30.2	56.29	-1,366.9	-455.5	1,230.3	1,192.9	37.43	32.872		
8,000.0	7,321.4	8,295.6	7,321.4	24.5	35.5	90.00	-1,706.5	227.8	1,243.0	1,194.5	48.57	25.594		
8,100.0	7,321.4	8,395.6	7,321.4	26.4	36.0	90.00	-1,706.2	327.8	1,243.2	1,190.9	52.28	23.779		
8,200.0	7,321.4	8,495.6	7,321.4	28.5	36.7	90.00	-1,706.0	427.8	1,243.3	1,187.0	56.31	22.081		
8,300.0	7,321.4	8,595.6	7,321.4	30.7	37.6	90.00	-1,705.8	527.8	1,243.5	1,182.9	60.59	20.524		
8,400.0	7,321.4	8,695.6	7,321.4	33.0	38.9	90.00	-1,705.5	627.8	1,243.6	1,178.5	65.07	19.112		
8,500.0	7,321.4	8,795.6	7,321.4	35.3	40.4	90.00	-1,705.3	727.8	1,243.7	1,174.0	69.71	17.841		
8,600.0	7,321.4	8,895.6	7,321.4	37.8	42.1	90.00	-1,705.1	827.8	1,243.9	1,169.4	74.49	16.698		
8,700.0	7,321.4	8,995.6	7,321.4	40.2	44.0	90.00	-1,704.8	927.8	1,244.0	1,164.6	79.38	15.672		
8,800.0	7,321.4	9,095.6	7,321.4	42.7	46.0	90.00	-1,704.6	1,027.8	1,244.2	1,159.8	84.36	14.749		
8,900.0	7,321.4	9,195.6	7,321.4	45.3	48.2	90.00	-1,704.4	1,127.8	1,244.3	1,154.9	89.41	13.917		
9,000.0	7,321.4	9,295.6	7,321.4	47.8	50.5	90.00	-1,704.1	1,227.8	1,244.4	1,149.9	94.53	13.165		
9,100.0	7,321.4	9,395.6	7,321.4	50.4	52.8	90.00	-1,703.9	1,327.8	1,244.6	1,144.9	99.69	12.484		
9,200.0	7,321.4	9,495.6	7,321.4	53.1	55.2	90.00	-1,703.6	1,427.8	1,244.7	1,139.8	104.91	11.865		
9,300.0	7,321.4	9,595.6	7,321.4	55.7	57.7	90.00	-1,703.4	1,527.8	1,244.9	1,134.7	110.16	11.300		
9,400.0	7,321.4	9,695.6	7,321.4	58.3	60.1	90.00	-1,703.2	1,627.8	1,245.0	1,129.6	115.45	10.784		
9,500.0	7,321.4	9,795.6	7,321.4	61.0	62.6	90.00	-1,702.9	1,727.8	1,245.1	1,124.4	120.76	10.311		
9,600.0	7,321.4	9,895.6	7,321.4	63.7	65.2	90.00	-1,702.7	1,827.8	1,245.3	1,119.2	126.11	9.875		
9,700.0	7,321.4	9,995.6	7,321.4	66.4	67.7	90.00	-1,702.5	1,927.8	1,245.4	1,114.0	131.47	9.473		
9,800.0	7,321.4	10,095.6	7,321.4	69.1	70.3	90.00	-1,702.2	2,027.8	1,245.6	1,108.7	136.85	9.101		
9,900.0	7,321.4	10,195.6	7,321.4	71.8	72.9	90.00	-1,702.0	2,127.8	1,245.7	1,103.5	142.25	8.757		
10,000.0	7,321.4	10,295.6	7,321.4	74.5	75.6	90.00	-1,701.8	2,227.8	1,245.9	1,098.2	147.67	8.437		
10,100.0	7,321.4	10,395.6	7,321.4	77.2	78.2	90.00	-1,701.5	2,327.8	1,246.0	1,092.9	153.10	8.138		
10,200.0	7,321.4	10,495.6	7,321.4	79.9	80.8	90.00	-1,701.3	2,427.8	1,246.1	1,087.6	158.55	7.860		
10,300.0	7,321.4	10,595.6	7,321.4	82.6	83.5	90.00	-1,701.1	2,527.8	1,246.3	1,082.3	164.00	7.599		

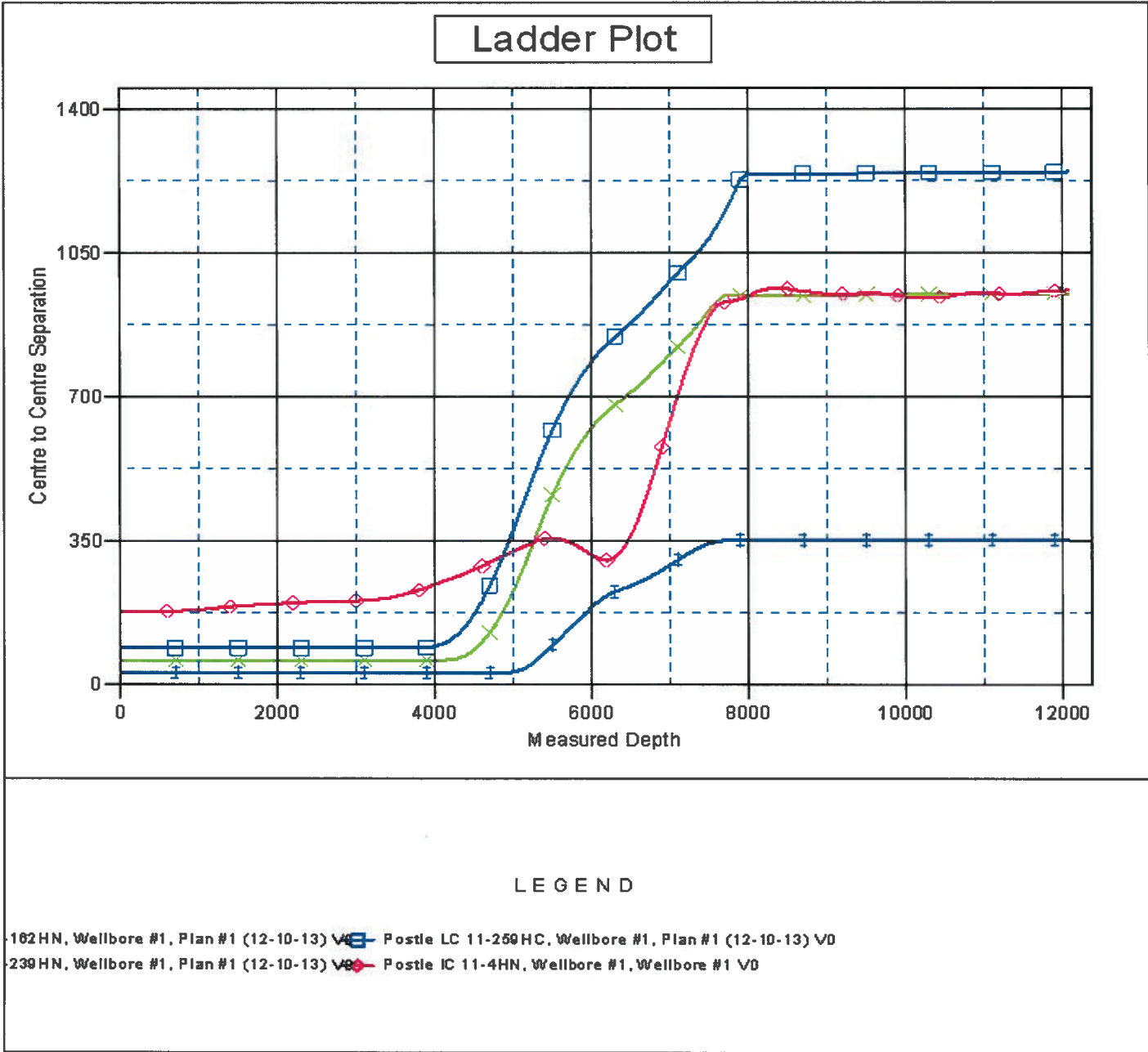
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 11-159HC	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 11-259HC - 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)	Offset Wellbore Centre +E/W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,400.0	7,321.4	10,695.6	7,321.4	85.4	86.1	90.00	-1,700.8	2,627.8	1,246.4	1,077.0	169.46	7.355			
10,500.0	7,321.4	10,795.6	7,321.4	88.1	88.8	90.00	-1,700.6	2,727.8	1,246.6	1,071.6	174.94	7.126			
10,600.0	7,321.4	10,895.6	7,321.4	90.9	91.5	90.00	-1,700.4	2,827.8	1,246.7	1,066.3	180.42	6.910			
10,700.0	7,321.4	10,995.6	7,321.4	93.6	94.2	90.00	-1,700.1	2,927.8	1,246.8	1,060.9	185.91	6.707			
10,800.0	7,321.4	11,095.6	7,321.4	96.4	96.9	90.00	-1,699.9	3,027.8	1,247.0	1,055.6	191.41	6.515			
10,900.0	7,321.4	11,195.6	7,321.4	99.1	99.6	90.00	-1,699.6	3,127.8	1,247.1	1,050.2	196.91	6.333			
11,000.0	7,321.4	11,295.6	7,321.4	101.9	102.3	90.00	-1,699.4	3,227.8	1,247.3	1,044.8	202.42	6.162			
11,100.0	7,321.4	11,395.6	7,321.4	104.6	105.0	90.00	-1,699.2	3,327.8	1,247.4	1,039.5	207.93	5.999			
11,200.0	7,321.4	11,495.6	7,321.4	107.4	107.7	90.00	-1,698.9	3,427.8	1,247.5	1,034.1	213.45	5.845			
11,300.0	7,321.4	11,595.6	7,321.4	110.1	110.5	90.00	-1,698.7	3,527.8	1,247.7	1,028.7	218.98	5.698			
11,400.0	7,321.4	11,695.6	7,321.4	112.9	113.2	90.00	-1,698.5	3,627.8	1,247.8	1,023.3	224.51	5.558			
11,500.0	7,321.4	11,795.6	7,321.4	115.7	115.9	90.00	-1,698.2	3,727.8	1,248.0	1,017.9	230.04	5.425			
11,600.0	7,321.4	11,895.6	7,321.4	118.4	118.6	90.00	-1,698.0	3,827.8	1,248.1	1,012.5	235.57	5.298			
11,700.0	7,321.4	11,995.6	7,321.4	121.2	121.4	90.00	-1,697.8	3,927.8	1,248.3	1,007.1	241.11	5.177			
11,800.0	7,321.4	12,095.6	7,321.4	124.0	124.1	90.00	-1,697.5	4,027.8	1,248.4	1,001.7	246.66	5.061			
11,900.0	7,321.4	12,195.6	7,321.4	126.8	126.9	90.00	-1,697.3	4,127.8	1,248.5	996.3	252.20	4.951			
12,000.0	7,321.4	12,295.6	7,321.4	129.5	129.6	90.00	-1,697.1	4,227.8	1,248.7	990.9	257.75	4.845			
12,033.7	7,321.4	12,329.3	7,321.4	130.5	130.3	90.00	-1,697.0	4,261.5	1,248.7	989.4	259.33	4.815			
12,083.0	7,321.4	12,369.5	7,321.4	131.8	131.0	90.00	-1,696.9	4,301.7	1,248.8	987.4	261.41	4.777 SF			

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 11-159HC	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

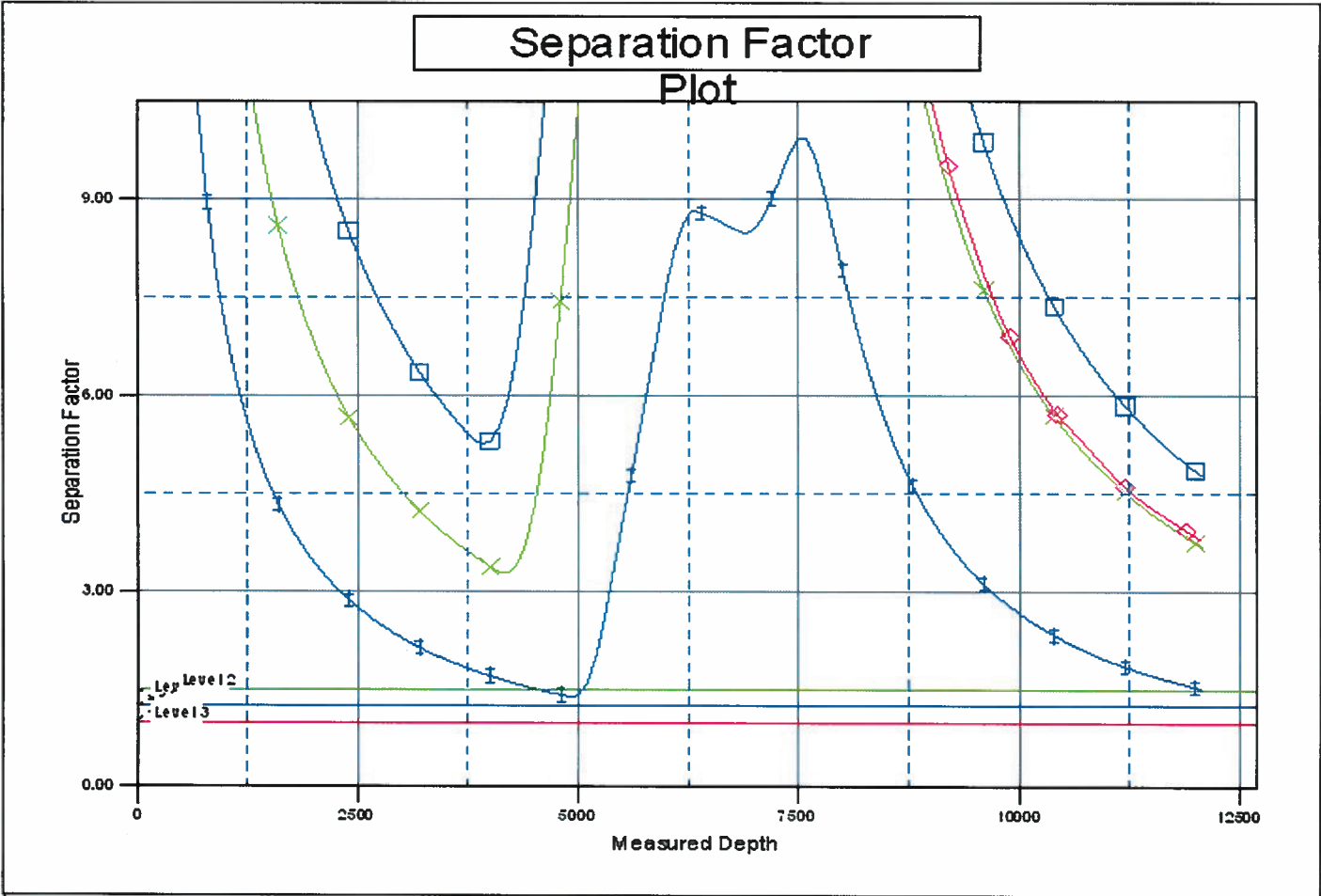
Reference Depths are relative to WELL @ 4993.4ft (RKB - 16.5') Coordinates are relative to: Postle LC 11-159HC
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.34°



Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-159HC
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 11-159HC	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 11-159HC
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.34°



LEGEND

- 11-162HN, Wellbore #1, Plan #1 (12-10-13) V0 - Postle LC 11-269HC, Wellbore #1, Plan #1 (12-10-13) V0
- 11-239HN, Wellbore #1, Plan #1 (12-10-13) V0 - Postle IC 11-4HN, Wellbore #1, Wellbore #1 V0