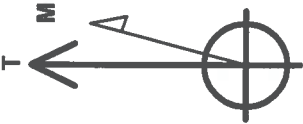


Well Name: Postle IC 11-122HN

Surface Location: Postle West Pad Sec. 11-T3N-R68W
 North American Datum 1983, US State Plane 1983, Colorado Northern Zone
 Ground Elevation: 4976.9
 Slot
 +N/-S +E/-W Northing Easting Longitude
 0.0 0.0 1332149.54 3145696.06 40.243972 -104.978072
 RKB - 16.5' WELL @ 4993.4ft (RKB - 16.5')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1456'FNL & 478'FWL	1.0	0.0	0.0	Point
BHL 1714'FNL & 470'FEL	7152.4	-235.3	4343.3	Point
Entry Pt. 1709'FNL & 460'FWL	7152.4	-252.8	-16.5	Point

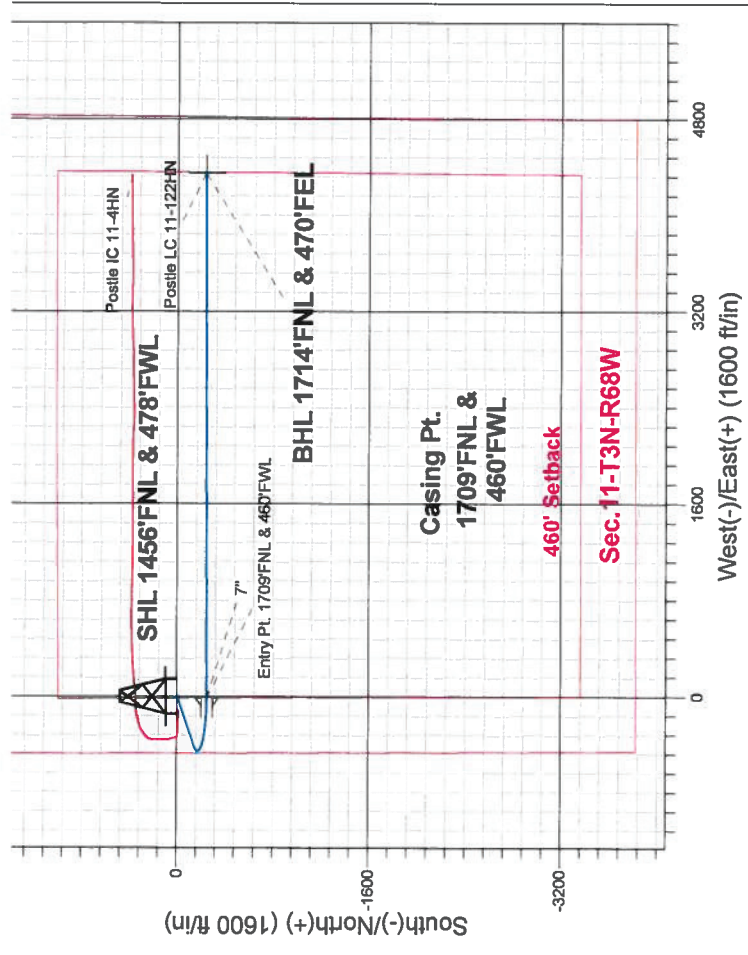


Azimuths to True North
 Magnetic North: 8.63°

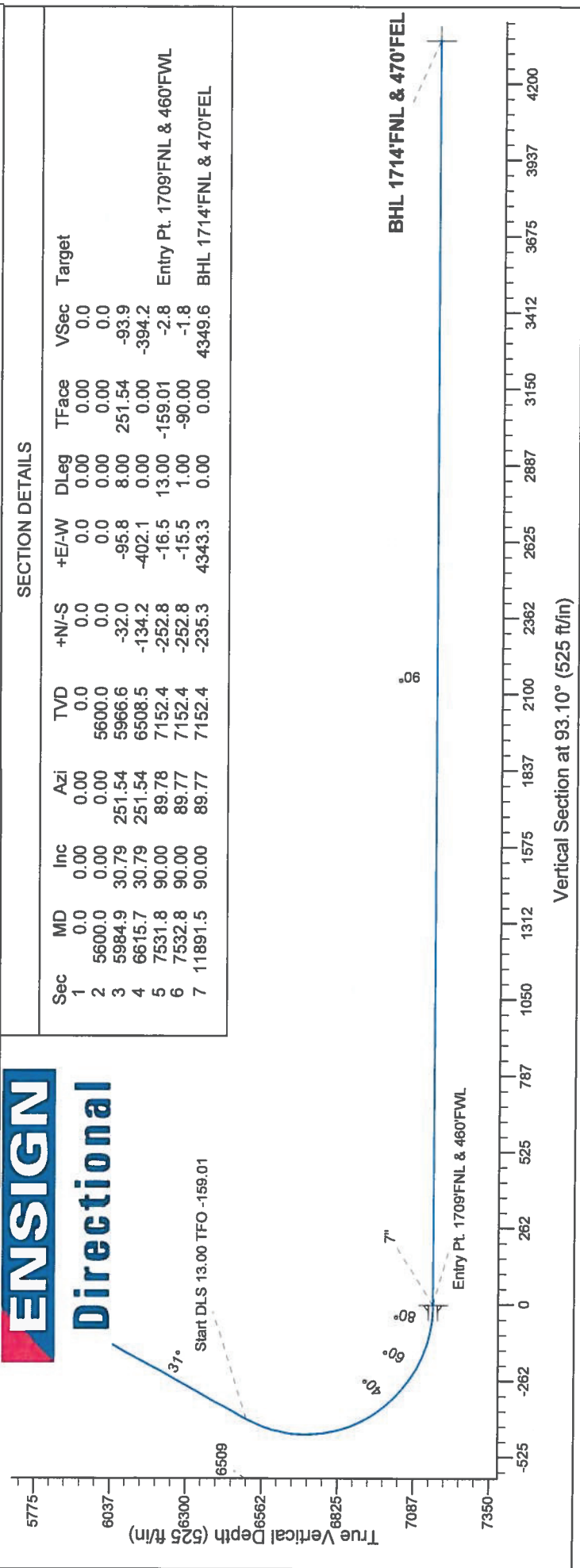
Postle West Pad Sec. 11-T3N-R68W
 Postle IC 11-122HN
 Plan #1 (12-10-13)
 15:27, December 11 2013

ANNOTATIONS

TVD	MD	Annotation
5600.0	5600.0	KOP - Start Build 8.00
6508.5	6615.7	Start DLS 13.00 TFO -159.01
7152.4	11891.5	TD at 11891.5



ENSIGN Directional



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+EAW	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5600.0	0.00	0.00	5600.0	0.0	0.0	0.00	0.00	0.0	
3	5984.9	30.79	251.54	5966.6	-32.0	-95.8	8.00	251.54	-93.9	
4	6615.7	30.79	251.54	6508.5	-134.2	-402.1	0.00	0.00	-394.2	
5	7531.8	90.00	89.78	7152.4	-252.8	-16.5	13.00	-159.01	-2.8	Entry Pt. 1709'FNL & 460'FWL
6	7532.8	90.00	89.77	7152.4	-252.8	-15.5	1.00	-90.00	-1.8	
7	11891.5	90.00	89.77	7152.4	-235.3	4343.3	0.00	0.00	4349.6	BHL 1714'FNL & 470'FEL



Directional

Great Western

SEC.11-T3N-R68W

Postle West Pad Sec.11-T3N-R68W

Postle IC 11-122HN

Wellbore #1

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

Standard Planning Report

11 December, 2013

Database:	Landmark	Local Co-ordinate Reference:	Well PostleIC 11-122HN
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:	PostleIC 11-122HN	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	PostleIC 11-122HN					
Well Position	+N/-S	5.1 ft	Northing:	1,332,149.54 ft	Latitude:	40.243972
	+E/-W	120.3 ft	Easting:	3,145,696.06 ft	Longitude:	-104.978072
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)
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Audit Notes:	
Version:	Phase: PROTOTYPE Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft) +N/-S (ft) +E/-W (ft) Direction (°)
	0.0 0.0 0.0 93.10

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	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,984.9	30.79	251.54	5,966.6	-32.0	-95.8	8.00	8.00	0.00	251.54	
6,615.7	30.79	251.54	6,508.5	-134.2	-402.1	0.00	0.00	0.00	0.00	
7,531.8	90.00	89.78	7,152.4	-252.8	-16.5	13.00	6.46	-17.66	-159.01	Entry Pt. 1709'FNL
7,532.8	90.00	89.77	7,152.4	-252.8	-15.5	1.00	0.00	-1.00	-90.00	
11,891.5	90.00	89.77	7,152.4	-235.3	4,343.3	0.00	0.00	0.00	0.00	BHL 1714'FNL & 47

Database:	Landmark	Local Co-ordinate Reference:	Well Postle IC 11-122HN
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 11-122HN	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 1456'FNL & 478'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 IC 11-122HN
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 11-122HN	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	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
KOP - Start Build 8.00										
5,700.0	8.00	251.54	5,699.7	-2.2	-6.6	-6.5	8.00	8.00	0.00	
5,800.0	16.00	251.54	5,797.4	-8.8	-26.3	-25.8	8.00	8.00	0.00	
5,900.0	24.00	251.54	5,891.3	-19.6	-58.7	-57.6	8.00	8.00	0.00	
5,984.9	30.79	251.54	5,966.6	-32.0	-95.8	-93.9	8.00	8.00	0.00	
6,000.0	30.79	251.54	5,979.6	-34.4	-103.1	-101.1	0.00	0.00	0.00	
6,100.0	30.79	251.54	6,065.5	-50.6	-151.7	-148.7	0.00	0.00	0.00	
6,200.0	30.79	251.54	6,151.4	-66.8	-200.2	-196.3	0.00	0.00	0.00	
6,300.0	30.79	251.54	6,237.3	-83.0	-248.8	-243.9	0.00	0.00	0.00	
6,400.0	30.79	251.54	6,323.2	-99.2	-297.3	-291.5	0.00	0.00	0.00	
6,500.0	30.79	251.54	6,409.1	-115.5	-345.9	-339.1	0.00	0.00	0.00	
6,600.0	30.79	251.54	6,495.0	-131.7	-394.5	-386.8	0.00	0.00	0.00	
6,615.7	30.79	251.54	6,508.5	-134.2	-402.1	-394.2	0.00	0.00	0.00	
Start DLS 13.00 TFO -159.01										
6,700.0	20.89	240.53	6,584.3	-148.5	-435.7	-427.1	13.01	-11.75	-13.06	
6,800.0	11.73	205.86	6,680.4	-166.5	-455.8	-446.1	13.00	-9.16	-34.67	
6,900.0	13.15	142.76	6,778.5	-184.8	-453.3	-442.7	13.00	1.42	-63.10	
7,000.0	23.29	115.46	6,873.5	-202.4	-428.5	-416.9	13.00	10.14	-27.30	
7,100.0	35.29	105.06	6,960.6	-218.5	-382.5	-370.2	13.00	12.01	-10.40	
7,200.0	47.78	99.52	7,035.3	-232.1	-317.9	-304.8	13.00	12.48	-5.53	
7,300.0	60.43	95.85	7,093.9	-242.8	-237.7	-224.2	13.00	12.66	-3.67	
7,400.0	73.17	93.01	7,133.2	-249.7	-146.3	-132.6	13.00	12.74	-2.84	
7,500.0	85.94	90.54	7,151.3	-252.7	-48.2	-34.5	13.00	12.77	-2.48	
7,531.8	89.99	89.78	7,152.4	-252.8	-16.5	-2.8	12.98	12.76	-2.38	
7" - Entry Pt. 1709'FNL & 460'FWL										
7,532.8	90.00	89.77	7,152.4	-252.8	-15.5	-1.8	1.27	0.61	-1.11	
7,600.0	90.00	89.77	7,152.4	-252.5	51.8	65.4	0.00	0.00	0.00	
7,700.0	90.00	89.77	7,152.4	-252.1	151.8	165.2	0.00	0.00	0.00	
7,800.0	90.00	89.77	7,152.4	-251.7	251.8	265.0	0.00	0.00	0.00	
7,900.0	90.00	89.77	7,152.4	-251.3	351.8	364.9	0.00	0.00	0.00	
8,000.0	90.00	89.77	7,152.4	-250.9	451.8	464.7	0.00	0.00	0.00	
8,100.0	90.00	89.77	7,152.4	-250.5	551.8	564.5	0.00	0.00	0.00	
8,200.0	90.00	89.77	7,152.4	-250.1	651.8	664.3	0.00	0.00	0.00	
8,300.0	90.00	89.77	7,152.4	-249.7	751.8	764.2	0.00	0.00	0.00	
8,400.0	90.00	89.77	7,152.4	-249.3	851.8	864.0	0.00	0.00	0.00	
8,500.0	90.00	89.77	7,152.4	-248.9	951.8	963.8	0.00	0.00	0.00	
8,600.0	90.00	89.77	7,152.4	-248.5	1,051.8	1,063.7	0.00	0.00	0.00	
8,700.0	90.00	89.77	7,152.4	-248.1	1,151.8	1,163.5	0.00	0.00	0.00	
8,800.0	90.00	89.77	7,152.4	-247.7	1,251.8	1,263.3	0.00	0.00	0.00	
8,900.0	90.00	89.77	7,152.4	-247.3	1,351.8	1,363.2	0.00	0.00	0.00	
9,000.0	90.00	89.77	7,152.4	-246.9	1,451.8	1,463.0	0.00	0.00	0.00	
9,100.0	90.00	89.77	7,152.4	-246.5	1,551.8	1,562.8	0.00	0.00	0.00	
9,200.0	90.00	89.77	7,152.4	-246.1	1,651.8	1,662.7	0.00	0.00	0.00	
9,300.0	90.00	89.77	7,152.4	-245.7	1,751.8	1,762.5	0.00	0.00	0.00	
9,400.0	90.00	89.77	7,152.4	-245.3	1,851.8	1,862.3	0.00	0.00	0.00	
9,500.0	90.00	89.77	7,152.4	-244.9	1,951.8	1,962.2	0.00	0.00	0.00	
9,600.0	90.00	89.77	7,152.4	-244.5	2,051.8	2,062.0	0.00	0.00	0.00	
9,700.0	90.00	89.77	7,152.4	-244.1	2,151.8	2,161.8	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Postle IC 11-122HN
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 11-122HN	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	89.77	7,152.4	-243.7	2,251.8	2,261.6	0.00	0.00	0.00
9,900.0	90.00	89.77	7,152.4	-243.3	2,351.8	2,361.5	0.00	0.00	0.00
10,000.0	90.00	89.77	7,152.4	-242.9	2,451.8	2,461.3	0.00	0.00	0.00
10,100.0	90.00	89.77	7,152.4	-242.5	2,551.8	2,561.1	0.00	0.00	0.00
10,200.0	90.00	89.77	7,152.4	-242.1	2,651.8	2,661.0	0.00	0.00	0.00
10,300.0	90.00	89.77	7,152.4	-241.7	2,751.8	2,760.8	0.00	0.00	0.00
10,400.0	90.00	89.77	7,152.4	-241.3	2,851.8	2,860.6	0.00	0.00	0.00
10,500.0	90.00	89.77	7,152.4	-240.9	2,951.8	2,960.5	0.00	0.00	0.00
10,600.0	90.00	89.77	7,152.4	-240.5	3,051.8	3,060.3	0.00	0.00	0.00
10,700.0	90.00	89.77	7,152.4	-240.1	3,151.8	3,160.1	0.00	0.00	0.00
10,800.0	90.00	89.77	7,152.4	-239.7	3,251.8	3,260.0	0.00	0.00	0.00
10,900.0	90.00	89.77	7,152.4	-239.3	3,351.8	3,359.8	0.00	0.00	0.00
11,000.0	90.00	89.77	7,152.4	-238.9	3,451.7	3,459.6	0.00	0.00	0.00
11,100.0	90.00	89.77	7,152.4	-238.5	3,551.7	3,559.4	0.00	0.00	0.00
11,200.0	90.00	89.77	7,152.4	-238.1	3,651.7	3,659.3	0.00	0.00	0.00
11,300.0	90.00	89.77	7,152.4	-237.7	3,751.7	3,759.1	0.00	0.00	0.00
11,400.0	90.00	89.77	7,152.4	-237.3	3,851.7	3,858.9	0.00	0.00	0.00
11,500.0	90.00	89.77	7,152.4	-236.9	3,951.7	3,958.8	0.00	0.00	0.00
11,600.0	90.00	89.77	7,152.4	-236.5	4,051.7	4,058.6	0.00	0.00	0.00
11,700.0	90.00	89.77	7,152.4	-236.1	4,151.7	4,158.4	0.00	0.00	0.00
11,800.0	90.00	89.77	7,152.4	-235.7	4,251.7	4,258.3	0.00	0.00	0.00
11,891.5	90.00	89.77	7,152.4	-235.3	4,343.2	4,349.6	0.00	0.00	0.00

TD at 11891.5 - BHL 1714'FNL & 470'FEL

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,531.8	7,152.4	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,600.0	5,600.0	0.0	0.0	KOP - Start Build 8.00
6,615.7	6,508.5	-134.2	-402.1	Start DLS 13.00 TFO -159.01
11,891.5	7,152.4	-235.3	4,343.2	TD at 11891.5



Directional

Great Western

SEC.11-T3N-R68W

Postle West Pad Sec.11-T3N-R68W

Postle IC 11-122HN

Wellbore #1

Plan #1 (12-10-13)

Anticollision Report

11 December, 2013

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-122HN
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 11-122HN	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:	ISWISA
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	11,891.1	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	0.0	2.6	120.4	120.4	10,000.000	CC
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	500.0	502.2	120.6	118.8	65.270	ES
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	11,891.5	11,715.0	628.9	369.5	2.425	SF
Postle IC 11-039HN - Wellbore #1 - Plan #1 (12-10-13)	4,700.0	4,700.0	60.6	39.7	2.899	CC, ES
Postle IC 11-039HN - Wellbore #1 - Plan #1 (12-10-13)	4,800.0	4,798.7	61.6	40.2	2.883	SF
Postle IC 11-042HC - Wellbore #1 - Plan #1 (12-10-13)	5,200.0	5,200.0	30.4	7.3	1.315	Level 3, CC, ES, SF
Postle IC 11-159HC - Wellbore #1 - Plan #1 (12-10-13)	5,300.0	5,300.0	103.7	80.1	4.396	CC, ES
Postle IC 11-159HC - Wellbore #1 - Plan #1 (12-10-13)	11,891.5	12,083.0	353.7	119.9	1.513	SF
Postle IC 11-162HN - Wellbore #1 - Plan #1 (12-10-13)	4,900.0	4,900.0	99.2	77.4	4.548	CC, ES
Postle IC 11-162HN - Wellbore #1 - Plan #1 (12-10-13)	11,891.5	11,974.5	622.2	360.2	2.375	SF
Postle IC 11-239HN - Wellbore #1 - Plan #1 (12-10-13)	4,100.0	4,100.0	104.5	86.3	5.739	CC, ES
Postle IC 11-239HN - Wellbore #1 - Plan #1 (12-10-13)	11,891.5	12,123.4	1,248.8	987.1	4.771	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)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	2.6	2.6	0.0	0.0	-92.43	-5.1	-120.3	120.4	120.4	0.00	N/A	CC	
100.0	100.0	102.5	102.5	0.1	0.1	-92.46	-5.2	-120.3	120.5	120.2	0.23	528.928		
200.0	200.0	202.5	202.5	0.3	0.2	-92.57	-5.4	-120.4	120.5	120.0	0.56	213.450		
300.0	300.0	302.6	302.6	0.6	0.4	-92.72	-5.7	-120.5	120.6	119.6	0.97	123.865		
400.0	400.0	402.7	402.7	0.8	0.6	-92.91	-6.1	-120.4	120.6	119.1	1.41	85.455		
438.9	438.9	441.5	441.5	0.9	0.7	-93.02	-6.4	-120.4	120.5	119.0	1.58	76.238		
500.0	500.0	502.2	502.2	1.0	0.8	-93.23	-6.8	-120.4	120.6	118.8	1.85	65.270	ES	
600.0	600.0	601.5	601.5	1.2	1.1	-93.56	-7.5	-121.0	121.3	119.0	2.29	53.061		
700.0	700.0	701.4	701.4	1.5	1.3	-93.86	-8.2	-122.0	122.3	119.5	2.71	45.039		
800.0	800.0	801.4	801.4	1.7	1.5	-94.08	-8.8	-122.9	123.3	120.1	3.14	39.227		
900.0	900.0	900.8	900.7	1.9	1.7	-94.25	-9.2	-124.1	124.4	120.9	3.57	34.830		
1,000.0	1,000.0	999.9	999.8	2.1	1.9	-94.46	-9.8	-125.9	126.3	122.3	4.01	31.477		
1,100.0	1,100.0	1,099.3	1,099.2	2.4	2.1	-94.63	-10.4	-128.3	128.7	124.3	4.45	28.914		
1,200.0	1,200.0	1,199.5	1,199.4	2.6	2.3	-94.52	-10.3	-130.9	131.4	126.5	4.89	26.884		
1,300.0	1,300.0	1,300.1	1,300.0	2.8	2.5	-94.29	-10.0	-133.1	133.5	128.2	5.31	25.123		
1,400.0	1,400.0	1,400.3	1,400.2	3.0	2.7	-94.06	-9.6	-135.0	135.4	129.6	5.74	23.565		

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 11-122HN
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 11-122HN	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		Minimum Separation		Separation Factor		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		
1,500.0	1,500.0	1,501.6	1,501.4	3.3	2.9	-93.61	-8.6	-136.5	136.8	130.6	6.18	22.139		
1,600.0	1,600.0	1,601.9	1,601.7	3.5	3.1	-92.95	-7.1	-137.3	137.5	130.9	6.61	20.790		
1,700.0	1,700.0	1,702.1	1,701.9	3.7	3.3	-92.54	-6.1	-138.0	138.1	131.1	7.05	19.595		
1,800.0	1,800.0	1,801.5	1,801.3	3.9	3.6	-92.25	-5.4	-138.7	138.8	131.3	7.48	18.550		
1,900.0	1,900.0	1,901.1	1,900.9	4.2	3.8	-91.90	-4.6	-139.8	139.9	132.0	7.92	17.665		
2,000.0	2,000.0	2,002.3	2,002.1	4.4	4.0	-91.63	-4.0	-140.6	140.6	132.3	8.36	16.831		
2,100.0	2,100.0	2,102.2	2,101.9	4.6	4.2	-91.25	-3.1	-141.0	141.0	132.2	8.79	16.047		
2,200.0	2,200.0	2,201.5	2,201.3	4.8	4.4	-90.82	-2.0	-141.7	141.7	132.5	9.22	15.369		
2,300.0	2,300.0	2,301.4	2,301.1	5.1	4.6	-90.52	-1.3	-142.6	142.7	133.0	9.66	14.769		
2,400.0	2,400.0	2,400.1	2,399.9	5.3	4.8	-90.60	-1.5	-144.2	144.3	134.2	10.09	14.292		
2,500.0	2,500.0	2,501.1	2,500.8	5.5	5.0	-90.85	-2.2	-145.8	145.8	135.3	10.53	13.848		
2,600.0	2,600.0	2,601.9	2,601.7	5.7	5.2	-91.05	-2.7	-146.7	146.7	135.7	10.96	13.381		
2,700.0	2,700.0	2,702.2	2,701.9	6.0	5.4	-91.25	-3.2	-147.2	147.2	135.8	11.40	12.918		
2,800.0	2,800.0	2,802.0	2,801.8	6.2	5.7	-91.52	-3.9	-147.7	147.7	135.9	11.83	12.484		
2,900.0	2,900.0	2,901.7	2,901.4	6.4	5.9	-91.84	-4.8	-148.3	148.4	136.1	12.27	12.096		
3,000.0	3,000.0	3,000.8	3,000.5	6.6	6.1	-92.19	-5.7	-149.3	149.5	136.8	12.70	11.765		
3,100.0	3,100.0	3,100.2	3,099.9	6.9	6.3	-92.38	-6.3	-151.0	151.1	138.0	13.14	11.501		
3,200.0	3,200.0	3,199.7	3,199.4	7.1	6.5	-92.55	-6.8	-152.9	153.1	139.5	13.58	11.275		
3,300.0	3,300.0	3,298.5	3,298.2	7.3	6.7	-92.84	-7.7	-155.2	155.5	141.5	14.01	11.096		
3,400.0	3,400.0	3,397.7	3,397.3	7.5	6.9	-92.98	-8.2	-158.3	158.6	144.2	14.45	10.977		
3,500.0	3,500.0	3,495.4	3,494.9	7.8	7.1	-93.07	-8.7	-162.1	162.5	147.6	14.89	10.917		
3,600.0	3,600.0	3,594.5	3,593.9	8.0	7.4	-92.88	-8.4	-167.2	167.7	152.3	15.33	10.938		
3,700.0	3,700.0	3,693.7	3,692.9	8.2	7.6	-92.62	-7.9	-172.6	173.0	157.2	15.77	10.971		
3,800.0	3,800.0	3,791.5	3,790.5	8.4	7.8	-92.38	-7.4	-178.6	179.1	162.9	16.22	11.047		
3,900.0	3,900.0	3,889.5	3,888.3	8.7	8.0	-92.13	-6.9	-185.7	186.4	169.7	16.67	11.182		
4,000.0	4,000.0	3,989.0	3,987.5	8.9	8.2	-91.86	-6.3	-193.5	194.2	177.0	17.12	11.342		
4,100.0	4,100.0	4,090.6	4,088.8	9.1	8.5	-91.67	-5.8	-201.0	201.5	183.9	17.57	11.471		
4,200.0	4,200.0	4,189.0	4,187.0	9.3	8.7	-91.62	-5.9	-207.8	208.5	190.5	18.01	11.574		
4,300.0	4,300.0	4,287.6	4,285.2	9.6	8.9	-91.63	-6.1	-215.3	216.1	197.6	18.47	11.700		
4,400.0	4,400.0	4,386.1	4,383.4	9.8	9.2	-91.65	-6.4	-223.5	224.4	205.5	18.93	11.854		
4,500.0	4,500.0	4,485.5	4,482.5	10.0	9.4	-91.66	-6.7	-232.0	232.9	213.5	19.39	12.014		
4,600.0	4,600.0	4,583.2	4,579.8	10.2	9.6	-91.64	-6.9	-240.8	242.0	222.2	19.85	12.193		
4,700.0	4,700.0	4,682.4	4,678.5	10.5	9.9	-91.54	-6.7	-250.3	251.5	231.2	20.31	12.382		
4,800.0	4,800.0	4,782.1	4,777.7	10.7	10.1	-91.40	-6.3	-259.8	261.1	240.3	20.77	12.567		
4,900.0	4,900.0	4,882.1	4,877.3	10.9	10.4	-91.27	-6.0	-269.3	270.5	249.3	21.23	12.740		
5,000.0	5,000.0	4,982.5	4,977.3	11.1	10.6	-91.13	-5.5	-278.5	279.7	258.0	21.69	12.896		
5,100.0	5,100.0	5,083.3	5,077.7	11.4	10.8	-90.99	-5.0	-287.4	288.5	266.4	22.15	13.025		
5,200.0	5,200.0	5,183.7	5,177.8	11.6	11.1	-90.85	-4.4	-296.0	297.0	274.4	22.61	13.136		
5,300.0	5,300.0	5,285.0	5,278.7	11.8	11.3	-90.71	-3.8	-304.2	305.2	282.1	23.07	13.226		
5,400.0	5,400.0	5,386.8	5,380.2	12.0	11.5	-90.57	-3.1	-311.8	312.6	289.1	23.53	13.285		
5,500.0	5,500.0	5,489.7	5,482.9	12.2	11.8	-90.44	-2.4	-318.8	319.4	295.4	24.00	13.311		
5,600.0	5,600.0	5,590.6	5,583.5	12.5	12.0	-90.37	-2.1	-324.7	325.3	300.8	24.45	13.303		
5,700.0	5,699.7	5,690.3	5,683.1	12.7	12.2	18.59	-1.6	-330.6	324.5	300.2	24.31	13.353		
5,800.0	5,797.4	5,792.6	5,785.3	12.9	12.5	20.45	-0.5	-336.2	310.3	286.1	24.25	12.795		
5,900.0	5,891.3	5,892.2	5,884.7	13.1	12.7	24.31	1.5	-340.1	282.3	258.3	23.96	11.782		
6,000.0	5,979.6	5,984.5	5,977.0	13.4	12.9	31.10	4.6	-342.1	242.3	218.4	23.82	10.171		
6,100.0	6,065.5	6,067.9	6,060.2	13.8	13.1	39.23	9.3	-343.5	201.2	176.5	24.68	8.150		
6,200.0	6,151.4	6,149.0	6,141.0	14.3	13.2	50.50	16.0	-345.7	167.9	142.0	25.89	6.487		
6,300.0	6,237.3	6,224.9	6,215.8	14.9	13.4	64.89	28.0	-349.6	151.9	124.5	27.37	5.549		
6,335.0	6,267.4	6,254.1	6,244.6	15.1	13.5	70.84	32.8	-351.1	150.6	122.7	27.94	5.391		
6,400.0	6,323.2	6,301.7	6,291.3	15.5	13.6	80.54	41.9	-353.8	155.9	127.1	28.80	5.412		
6,500.0	6,409.1	6,372.3	6,359.5	16.2	13.8	93.47	59.4	-358.8	182.9	153.1	29.81	6.138		

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 11-122HN
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 11-122HN	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		Highside		Distance		Minimum Separation		Separation Factor		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Tooface (")	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
6,600.0	6,495.0	6,435.0	6,418.9	16.9	14.0	103.15	79.0	-361.1	227.3	196.8	30.50	7.453		
6,700.0	6,584.3	6,500.5	6,479.7	17.5	14.1	127.21	103.3	-360.8	283.7	253.2	30.57	9.283		
6,800.0	6,680.4	6,590.6	6,563.1	17.8	14.4	170.96	137.3	-358.9	340.7	309.9	30.77	11.072		
6,900.0	6,778.5	6,669.2	6,636.2	18.0	14.6	-122.71	166.3	-360.0	391.1	359.9	31.23	12.525		
7,000.0	6,873.5	6,758.7	6,718.8	18.1	14.9	-96.11	200.6	-362.2	437.7	406.0	31.70	13.807		
7,100.0	6,960.6	6,831.4	6,786.3	18.1	15.1	-86.52	227.0	-358.7	479.9	447.9	31.98	15.007		
7,200.0	7,035.3	6,921.0	6,867.7	18.2	15.4	-83.01	257.4	-337.2	518.7	486.4	32.27	16.074		
7,300.0	7,093.9	6,992.0	6,928.5	18.4	15.5	-80.59	280.2	-308.7	553.9	521.2	32.62	16.976		
7,400.0	7,133.2	7,121.0	7,024.8	19.0	15.7	-82.66	318.7	-232.7	585.5	552.0	33.56	17.446		
7,500.0	7,151.3	7,301.4	7,117.2	20.0	16.2	-86.78	347.9	-82.3	602.7	567.2	35.50	16.977		
7,600.0	7,152.4	7,408.9	7,140.3	21.3	17.2	-88.61	353.2	22.3	606.6	568.8	37.86	16.021		
7,700.0	7,152.4	7,495.1	7,141.4	22.9	18.3	-88.73	358.8	108.2	612.7	572.1	40.54	15.114		
7,800.0	7,152.4	7,582.0	7,139.3	24.7	19.6	-88.54	365.3	194.8	619.8	576.2	43.67	14.194		
7,900.0	7,152.4	7,668.1	7,134.3	26.6	21.4	-88.11	374.6	296.4	628.7	581.3	47.46	13.249		
8,000.0	7,152.4	7,819.7	7,131.0	28.7	24.2	-87.83	382.9	431.7	634.6	582.3	52.31	12.131		
8,100.0	7,152.4	7,923.4	7,128.0	31.0	26.4	-87.56	384.8	535.3	636.1	579.3	56.81	11.196		
8,200.0	7,152.4	8,042.8	7,127.1	33.3	29.2	-87.50	386.9	654.7	637.6	575.7	61.89	10.302		
8,300.0	7,152.4	8,147.8	7,126.9	35.7	31.7	-87.47	385.7	759.7	636.1	569.3	66.80	9.522		
8,400.0	7,152.4	8,267.9	7,129.1	38.1	34.6	-87.65	382.2	879.6	632.7	560.4	72.23	8.759		
8,500.0	7,152.4	8,350.7	7,128.9	40.6	36.7	-87.62	379.3	962.4	628.9	552.1	76.81	8.188		
8,600.0	7,152.4	8,445.9	7,127.9	43.1	39.1	-87.52	378.4	1,057.6	627.6	545.8	81.76	7.676		
8,700.0	7,152.4	8,557.6	7,127.9	45.7	41.9	-87.51	375.9	1,169.2	624.9	537.7	87.22	7.164		
8,800.0	7,152.4	8,649.4	7,127.3	48.3	44.3	-87.45	373.7	1,261.0	622.1	529.9	92.20	6.747		
8,867.6	7,152.4	8,705.3	7,126.1	50.0	45.8	-87.33	373.3	1,316.9	621.4	526.0	95.43	6.512		
8,900.0	7,152.4	8,733.3	7,125.3	50.9	46.5	-87.26	373.5	1,344.9	621.6	524.6	97.00	6.408		
9,000.0	7,152.4	8,840.2	7,123.4	53.5	49.3	-87.09	374.3	1,451.8	622.0	519.6	102.45	6.072		
9,087.8	7,152.4	8,925.4	7,122.5	55.8	51.6	-87.00	374.1	1,537.0	621.5	514.5	107.04	5.806		
9,100.0	7,152.4	8,934.5	7,122.5	56.1	51.9	-87.00	374.2	1,546.1	621.6	514.0	107.61	5.776		
9,200.0	7,152.4	9,028.7	7,123.2	58.8	54.4	-87.07	376.0	1,640.2	623.0	510.2	112.79	5.524		
9,300.0	7,152.4	9,131.8	7,123.2	61.5	57.1	-87.08	377.7	1,743.4	624.2	506.0	118.23	5.280		
9,400.0	7,152.4	9,242.3	7,124.0	64.2	60.1	-87.15	378.4	1,853.9	624.5	500.6	123.91	5.040		
9,500.0	7,152.4	9,349.4	7,124.3	66.8	63.0	-87.17	376.9	1,960.9	622.7	493.2	129.51	4.808		
9,600.0	7,152.4	9,453.5	7,123.7	69.5	65.8	-87.11	375.4	2,065.0	620.9	485.8	135.04	4.598		
9,700.0	7,152.4	9,558.0	7,123.3	72.3	68.7	-87.05	372.5	2,169.4	617.6	477.0	140.59	4.393		
9,800.0	7,152.4	9,652.3	7,120.1	75.0	71.3	-86.75	370.1	2,263.7	614.9	469.0	145.85	4.216		
9,900.0	7,152.4	9,742.1	7,119.3	77.7	73.7	-86.67	368.7	2,353.4	613.0	462.0	151.02	4.059		
9,920.5	7,152.4	9,758.5	7,119.4	78.3	74.2	-86.67	368.7	2,369.8	612.9	460.9	152.03	4.032		
10,000.0	7,152.4	9,838.0	7,118.8	80.4	76.3	-86.62	369.2	2,449.4	613.2	456.8	156.36	3.921		
10,100.0	7,152.4	9,940.0	7,117.5	83.2	79.1	-86.49	369.0	2,551.3	612.6	450.7	161.86	3.785		
10,115.2	7,152.4	9,953.2	7,117.4	83.6	79.5	-86.48	369.0	2,564.5	612.6	449.9	162.65	3.766		
10,200.0	7,152.4	10,037.2	7,118.2	85.9	81.8	-86.55	369.6	2,648.6	612.8	445.5	167.29	3.663		
10,300.0	7,152.4	10,131.8	7,119.4	88.6	84.4	-86.67	370.4	2,743.1	613.2	440.5	172.65	3.552		
10,400.0	7,152.4	10,213.6	7,119.2	91.4	86.6	-86.66	372.6	2,824.9	615.6	437.9	177.63	3.465		
10,500.0	7,152.4	10,317.6	7,118.8	94.1	89.5	-86.65	377.5	2,928.8	619.9	436.7	183.23	3.383		
10,600.0	7,152.4	10,419.6	7,118.9	96.9	92.3	-86.68	380.5	3,030.7	622.4	433.6	188.79	3.297		
10,700.0	7,152.4	10,532.4	7,117.8	99.6	95.4	-86.59	383.5	3,143.5	624.7	430.1	194.63	3.210		
10,800.0	7,152.4	10,645.3	7,118.0	102.4	98.6	-86.60	383.3	3,256.3	624.1	423.6	200.51	3.113		
10,900.0	7,152.4	10,749.4	7,117.8	105.2	101.4	-86.58	382.5	3,360.4	622.9	416.8	206.14	3.022		
11,000.0	7,152.4	10,845.8	7,118.3	107.9	104.1	-86.61	381.7	3,456.9	621.7	410.1	211.58	2.938		
11,100.0	7,152.4	10,942.0	7,119.4	110.7	106.8	-86.71	381.1	3,553.0	620.6	403.6	217.03	2.860		
11,146.3	7,152.4	10,984.5	7,120.0	112.0	107.9	-86.77	381.2	3,595.6	620.5	401.0	219.50	2.827		
11,200.0	7,152.4	11,032.7	7,120.6	113.5	109.3	-86.82	381.6	3,643.7	620.7	398.4	222.32	2.792		

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 11-122HN
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 11-122HN	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		
11,300.0	7,152.4	11,131.1	7,120.3	116.2	112.0	-86.80	383.2	3,742.1	622.0	394.2	227.81	2.730		
11,400.0	7,152.4	11,224.8	7,117.8	119.0	114.6	-86.58	385.0	3,835.8	623.6	390.5	233.12	2.675		
11,500.0	7,152.4	11,335.7	7,115.6	121.8	117.7	-86.38	387.0	3,946.7	625.2	386.3	238.92	2.617		
11,600.0	7,152.4	11,432.4	7,113.3	124.5	120.4	-86.18	388.1	4,043.3	626.0	381.7	244.32	2.562		
11,700.0	7,152.4	11,526.5	7,113.0	127.3	123.0	-86.16	389.5	4,137.4	627.2	377.5	249.69	2.512		
11,800.0	7,152.4	11,634.9	7,115.0	130.1	126.0	-86.35	390.9	4,245.8	627.9	372.3	255.52	2.457		
11,891.5	7,152.4	11,715.0	7,115.1	131.7	128.2	-86.36	392.1	4,325.8	628.9	369.5	259.35	2.425 SF		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-122HN
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 11-122HN	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 11-039HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance		Minimum Separation		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)	Separation (ft)	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-91.72	-1.8	-60.6	60.6					
100.0	100.0	100.0	100.0	0.1	0.1	-91.72	-1.8	-60.6	60.6	60.4	0.22	269.640		
200.0	200.0	200.0	200.0	0.3	0.3	-91.72	-1.8	-60.6	60.6	59.9	0.67	89.880		
300.0	300.0	300.0	300.0	0.6	0.6	-91.72	-1.8	-60.6	60.6	59.5	1.12	53.928		
400.0	400.0	400.0	400.0	0.8	0.8	-91.72	-1.8	-60.6	60.6	59.0	1.57	38.520		
500.0	500.0	500.0	500.0	1.0	1.0	-91.72	-1.8	-60.6	60.6	58.6	2.02	29.960		
600.0	600.0	600.0	600.0	1.2	1.2	-91.72	-1.8	-60.6	60.6	58.1	2.47	24.513		
700.0	700.0	700.0	700.0	1.5	1.5	-91.72	-1.8	-60.6	60.6	57.7	2.92	20.742		
800.0	800.0	800.0	800.0	1.7	1.7	-91.72	-1.8	-60.6	60.6	57.2	3.37	17.976		
900.0	900.0	900.0	900.0	1.9	1.9	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-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	-91.72	-1.8	-60.6	60.6	39.7	20.90	2.899 CC, ES		
4,800.0	4,800.0	4,798.7	4,798.7	10.7	10.7	-90.00	0.0	-61.5	61.6	40.2	21.35	2.883 SF		
4,900.0	4,900.0	4,896.8	4,896.5	10.9	10.9	-84.49	6.3	-64.8	65.2	43.4	21.79	2.993		
5,000.0	5,000.0	4,993.9	4,992.9	11.1	11.1	-76.57	16.8	-70.4	72.7	50.5	22.23	3.271		
5,100.0	5,100.0	5,089.6	5,087.1	11.4	11.3	-68.08	31.4	-78.1	85.2	62.5	22.68	3.756		

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 IC 11-122HN
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 11-122HN	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 11-039HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside 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	5,183.3	5,178.5	11.6	11.6	-60.44	49.8	-87.8	103.2	80.1	23.13	4.461		
5,300.0	5,300.0	5,274.8	5,266.6	11.8	11.8	-54.22	71.5	-99.3	126.8	103.2	23.60	5.374		
5,400.0	5,400.0	5,363.7	5,351.0	12.0	12.1	-49.41	96.2	-112.3	155.7	131.6	24.08	6.467		
5,500.0	5,500.0	5,449.8	5,431.4	12.2	12.3	-45.74	123.3	-126.6	189.6	165.0	24.59	7.710		
5,600.0	5,600.0	5,532.8	5,507.6	12.5	12.7	-42.95	152.5	-142.0	228.0	202.8	25.12	9.076		
5,700.0	5,699.7	5,612.8	5,579.5	12.7	13.0	65.75	183.4	-158.3	268.1	243.0	25.13	10.671		
5,800.0	5,797.4	5,689.1	5,646.8	12.9	13.4	67.24	215.4	-175.1	308.3	282.9	25.43	12.127		
5,900.0	5,891.3	5,769.3	5,716.2	13.1	13.8	69.81	250.8	-193.8	349.3	323.5	25.76	13.559		
6,000.0	5,979.6	5,849.5	5,785.6	13.4	14.3	73.37	286.4	-212.5	390.5	364.3	26.23	14.886		
6,100.0	6,065.5	5,928.0	5,853.5	13.8	14.8	79.21	321.2	-230.9	435.3	408.3	26.94	16.156		
6,200.0	6,151.4	6,006.5	5,921.5	14.3	15.3	84.15	356.0	-249.2	483.8	456.1	27.69	17.472		
6,300.0	6,237.3	6,085.0	5,989.4	14.9	15.8	88.31	390.8	-267.6	535.1	506.6	28.49	18.780		
6,400.0	6,323.2	6,163.5	6,057.3	15.5	16.4	91.84	425.6	-286.0	588.5	559.1	29.35	20.050		
6,500.0	6,409.1	6,242.0	6,125.2	16.2	17.0	94.84	460.4	-304.3	643.4	613.1	30.26	21.262		
6,600.0	6,495.0	6,320.4	6,193.1	16.9	17.6	97.42	495.2	-322.7	699.5	668.3	31.22	22.408		
6,700.0	6,584.3	6,399.9	6,261.9	17.5	18.2	116.70	530.5	-341.2	757.5	725.6	31.92	23.729		
6,800.0	6,680.4	6,479.8	6,331.0	17.8	18.8	159.24	565.9	-359.9	817.1	784.4	32.74	24.958		
6,900.0	6,778.5	6,555.9	6,396.9	18.0	19.4	-131.71	599.7	-377.7	875.6	841.8	33.75	25.940		
7,000.0	6,873.5	6,624.5	6,456.2	18.1	20.0	-99.98	630.1	-393.8	931.8	897.2	34.68	26.866		
7,100.0	6,960.6	6,682.0	6,506.0	18.1	20.5	-86.05	655.6	-407.2	985.5	950.2	35.29	27.930		
7,200.0	7,035.3	6,725.5	6,543.6	18.2	20.9	-77.33	674.9	-417.4	1,036.5	1,001.1	35.43	29.253		
7,300.0	7,093.9	6,752.7	6,567.1	18.4	21.1	-70.54	686.9	-423.7	1,084.6	1,049.5	35.10	30.898		
7,400.0	7,133.2	6,762.2	6,575.4	19.0	21.2	-64.62	691.1	-426.0	1,129.0	1,094.6	34.36	32.860		
7,500.0	7,151.3	6,753.6	6,567.9	20.0	21.1	-59.36	687.3	-424.0	1,168.4	1,135.0	33.41	34.972		
7,600.0	7,152.4	6,731.3	6,548.6	21.3	20.9	-57.06	677.4	-418.7	1,204.5	1,170.9	33.62	35.830		
7,700.0	7,152.4	7,834.4	7,152.4	22.9	23.9	-90.00	987.7	145.7	1,239.8	1,194.6	45.18	27.444		
7,800.0	7,152.4	7,934.4	7,152.4	24.7	24.8	-90.00	988.2	245.7	1,239.9	1,191.2	48.67	25.476		
7,900.0	7,152.4	8,034.4	7,152.4	26.6	26.6	-90.00	988.7	345.7	1,240.0	1,187.5	52.53	23.604		
8,000.0	7,152.4	8,134.4	7,152.4	28.7	28.6	-90.00	989.1	445.7	1,240.1	1,183.4	56.69	21.876		
8,100.0	7,152.4	8,234.4	7,152.4	31.0	30.7	-90.00	989.6	545.6	1,240.2	1,179.1	61.08	20.305		
8,200.0	7,152.4	8,334.4	7,152.4	33.3	33.0	-90.00	990.1	645.6	1,240.3	1,174.6	65.65	18.892		
8,300.0	7,152.4	8,434.4	7,152.4	35.7	35.3	-90.00	990.6	745.6	1,240.4	1,170.0	70.38	17.625		
8,400.0	7,152.4	8,534.4	7,152.4	38.1	37.7	-90.00	991.1	845.6	1,240.5	1,165.2	75.22	16.490		
8,500.0	7,152.4	8,634.4	7,152.4	40.6	40.2	-90.00	991.6	945.6	1,240.6	1,160.4	80.17	15.474		
8,600.0	7,152.4	8,734.4	7,152.4	43.1	42.7	-90.00	992.1	1,045.6	1,240.7	1,155.5	85.20	14.562		
8,700.0	7,152.4	8,834.4	7,152.4	45.7	45.2	-90.00	992.6	1,145.6	1,240.7	1,150.4	90.30	13.741		
8,800.0	7,152.4	8,934.4	7,152.4	48.3	47.8	-90.00	993.1	1,245.6	1,240.8	1,145.4	95.45	12.999		
8,900.0	7,152.4	9,034.4	7,152.4	50.9	50.3	-90.00	993.6	1,345.6	1,240.9	1,140.3	100.66	12.328		
9,000.0	7,152.4	9,134.4	7,152.4	53.5	52.9	-90.00	994.1	1,445.6	1,241.0	1,135.1	105.90	11.719		
9,100.0	7,152.4	9,234.4	7,152.4	56.1	55.6	-90.00	994.6	1,545.6	1,241.1	1,129.9	111.18	11.163		
9,200.0	7,152.4	9,334.4	7,152.4	58.8	58.2	-90.00	995.1	1,645.6	1,241.2	1,124.7	116.49	10.655		
9,300.0	7,152.4	9,434.4	7,152.4	61.5	60.9	-90.00	995.6	1,745.6	1,241.3	1,119.5	121.83	10.189		
9,400.0	7,152.4	9,534.4	7,152.4	64.2	63.5	-90.00	996.1	1,845.6	1,241.4	1,114.2	127.19	9.760		
9,500.0	7,152.4	9,634.4	7,152.4	66.8	66.2	-90.00	996.6	1,945.6	1,241.5	1,108.9	132.58	9.364		
9,600.0	7,152.4	9,734.4	7,152.4	69.5	68.9	-90.00	997.0	2,045.6	1,241.6	1,103.6	137.98	8.998		
9,700.0	7,152.4	9,834.4	7,152.4	72.3	71.6	-90.00	997.5	2,145.6	1,241.7	1,098.3	143.39	8.659		
9,800.0	7,152.4	9,934.4	7,152.4	75.0	74.3	-90.00	998.0	2,245.6	1,241.8	1,092.9	148.82	8.344		
9,900.0	7,152.4	10,034.4	7,152.4	77.7	77.0	-90.00	998.5	2,345.6	1,241.9	1,087.6	154.27	8.050		
10,000.0	7,152.4	10,134.4	7,152.4	80.4	79.7	-90.00	999.0	2,445.6	1,241.9	1,082.2	159.72	7.776		
10,100.0	7,152.4	10,234.4	7,152.4	83.2	82.4	-90.00	999.5	2,545.6	1,242.0	1,076.8	165.19	7.519		
10,200.0	7,152.4	10,334.4	7,152.4	85.9	85.2	-90.00	1,000.0	2,645.6	1,242.1	1,071.5	170.66	7.278		
10,300.0	7,152.4	10,434.4	7,152.4	88.6	87.9	-90.00	1,000.5	2,745.6	1,242.2	1,066.1	176.15	7.052		

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 IC 11-122HN
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 11-122HN	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 11-039HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,400.0	7,152.4	10,534.4	7,152.4	91.4	90.6	-90.00	1,001.0	2,845.6	1,242.3	1,060.7	181.64	6.840		
10,500.0	7,152.4	10,634.4	7,152.4	94.1	93.4	-90.00	1,001.5	2,945.6	1,242.4	1,055.3	187.13	6.639		
10,600.0	7,152.4	10,734.4	7,152.4	96.9	96.1	-90.00	1,002.0	3,045.6	1,242.5	1,049.9	192.64	6.450		
10,700.0	7,152.4	10,834.4	7,152.4	99.6	98.9	-90.00	1,002.5	3,145.6	1,242.6	1,044.4	198.15	6.271		
10,800.0	7,152.4	10,934.4	7,152.4	102.4	101.6	-90.00	1,003.0	3,245.6	1,242.7	1,039.0	203.66	6.102		
10,900.0	7,152.4	11,034.4	7,152.4	105.2	104.4	-90.00	1,003.5	3,345.6	1,242.8	1,033.6	209.19	5.941		
11,000.0	7,152.4	11,134.4	7,152.4	107.9	107.1	-90.00	1,004.0	3,445.6	1,242.9	1,028.2	214.71	5.789		
11,100.0	7,152.4	11,234.4	7,152.4	110.7	109.9	-90.00	1,004.5	3,545.6	1,243.0	1,022.7	220.24	5.644		
11,200.0	7,152.4	11,334.4	7,152.4	113.5	112.6	-90.00	1,004.9	3,645.6	1,243.1	1,017.3	225.77	5.506		
11,300.0	7,152.4	11,434.4	7,152.4	116.2	115.4	-90.00	1,005.4	3,745.6	1,243.1	1,011.8	231.31	5.374		
11,400.0	7,152.4	11,534.4	7,152.4	119.0	118.2	-90.00	1,005.9	3,845.6	1,243.2	1,006.4	236.85	5.249		
11,500.0	7,152.4	11,634.4	7,152.4	121.8	120.9	-90.00	1,006.4	3,945.6	1,243.3	1,000.9	242.39	5.129		
11,600.0	7,152.4	11,734.4	7,152.4	124.5	123.7	-90.00	1,006.9	4,045.6	1,243.4	995.5	247.94	5.015		
11,700.0	7,152.4	11,834.4	7,152.4	127.3	126.5	-90.00	1,007.4	4,145.6	1,243.5	990.0	253.49	4.906		
11,800.0	7,152.4	11,934.4	7,152.4	130.1	129.2	-90.00	1,007.9	4,245.6	1,243.6	984.6	259.04	4.801		
11,891.5	7,152.4	12,026.0	7,152.4	131.7	131.8	-90.00	1,008.4	4,337.1	1,243.7	980.5	263.20	4.725		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-122HN
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 11-122HN	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)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-92.06	-1.1	-30.4	30.4					
100.0	100.0	100.0	100.0	0.1	0.1	-92.06	-1.1	-30.4	30.4	30.2	0.22	135.468		
200.0	200.0	200.0	200.0	0.3	0.3	-92.06	-1.1	-30.4	30.4	29.8	0.67	45.156		
300.0	300.0	300.0	300.0	0.6	0.6	-92.06	-1.1	-30.4	30.4	29.3	1.12	27.094		
400.0	400.0	400.0	400.0	0.8	0.8	-92.06	-1.1	-30.4	30.4	28.9	1.57	19.353		
500.0	500.0	500.0	500.0	1.0	1.0	-92.06	-1.1	-30.4	30.4	28.4	2.02	15.052		
600.0	600.0	600.0	600.0	1.2	1.2	-92.06	-1.1	-30.4	30.4	28.0	2.47	12.315		
700.0	700.0	700.0	700.0	1.5	1.5	-92.06	-1.1	-30.4	30.4	27.5	2.92	10.421		
800.0	800.0	800.0	800.0	1.7	1.7	-92.06	-1.1	-30.4	30.4	27.1	3.37	9.031		
900.0	900.0	900.0	900.0	1.9	1.9	-92.06	-1.1	-30.4	30.4	26.6	3.82	7.969		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-92.06	-1.1	-30.4	30.4	26.2	4.27	7.130		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-92.06	-1.1	-30.4	30.4	25.7	4.72	6.451		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-92.06	-1.1	-30.4	30.4	25.3	5.17	5.890		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-92.06	-1.1	-30.4	30.4	24.8	5.62	5.419		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-92.06	-1.1	-30.4	30.4	24.4	6.07	5.017		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-92.06	-1.1	-30.4	30.4	23.9	6.52	4.671		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-92.06	-1.1	-30.4	30.4	23.5	6.97	4.370		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-92.06	-1.1	-30.4	30.4	23.0	7.42	4.105		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-92.06	-1.1	-30.4	30.4	22.6	7.87	3.871		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-92.06	-1.1	-30.4	30.4	22.1	8.32	3.661		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-92.06	-1.1	-30.4	30.4	21.7	8.77	3.474		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-92.06	-1.1	-30.4	30.4	21.2	9.22	3.304		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-92.06	-1.1	-30.4	30.4	20.8	9.66	3.150		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-92.06	-1.1	-30.4	30.4	20.3	10.11	3.010		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-92.06	-1.1	-30.4	30.4	19.9	10.56	2.882		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-92.06	-1.1	-30.4	30.4	19.4	11.01	2.765		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-92.06	-1.1	-30.4	30.4	19.0	11.46	2.656		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-92.06	-1.1	-30.4	30.4	18.5	11.91	2.556		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-92.06	-1.1	-30.4	30.4	18.1	12.36	2.463		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-92.06	-1.1	-30.4	30.4	17.6	12.81	2.377		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-92.06	-1.1	-30.4	30.4	17.2	13.26	2.296		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-92.06	-1.1	-30.4	30.4	16.7	13.71	2.221		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-92.06	-1.1	-30.4	30.4	16.3	14.16	2.150		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-92.06	-1.1	-30.4	30.4	15.8	14.61	2.084		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-92.06	-1.1	-30.4	30.4	15.4	15.06	2.022		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-92.06	-1.1	-30.4	30.4	14.9	15.51	1.963		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-92.06	-1.1	-30.4	30.4	14.5	15.96	1.908		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-92.06	-1.1	-30.4	30.4	14.0	16.41	1.856		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-92.06	-1.1	-30.4	30.4	13.6	16.86	1.806		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-92.06	-1.1	-30.4	30.4	13.1	17.31	1.759		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-92.06	-1.1	-30.4	30.4	12.7	17.76	1.715		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-92.06	-1.1	-30.4	30.4	12.2	18.21	1.672		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	-92.06	-1.1	-30.4	30.4	11.8	18.66	1.632		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	-92.06	-1.1	-30.4	30.4	11.3	19.11	1.594		
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	-92.06	-1.1	-30.4	30.4	10.9	19.55	1.557		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	-92.06	-1.1	-30.4	30.4	10.4	20.00	1.522		
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	-92.06	-1.1	-30.4	30.4	10.0	20.45	1.489 Level 3		
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	-92.06	-1.1	-30.4	30.4	9.5	20.90	1.457 Level 3		
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	-92.06	-1.1	-30.4	30.4	9.1	21.35	1.426 Level 3		
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	-92.06	-1.1	-30.4	30.4	8.6	21.80	1.397 Level 3		
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	-92.06	-1.1	-30.4	30.4	8.2	22.25	1.368 Level 3		
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	-92.06	-1.1	-30.4	30.4	7.7	22.70	1.341 Level 3		

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 IC 11-122HN
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 11-122HN	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: O-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	Warning	
5,200.0	5,200.0	5,200.0	5,200.0	11.6	11.6	-92.06	-1.1	-30.4	30.4	7.3	23.15	1.315	Level 3, CC, ES, SF	
5,300.0	5,300.0	5,299.3	5,299.2	11.8	11.8	-90.30	-0.2	-31.3	31.3	7.7	23.60	1.326	Level 3	
5,400.0	5,400.0	5,397.8	5,397.6	12.0	12.0	-82.99	4.4	-35.4	35.7	11.7	24.04	1.487	Level 3	
5,500.0	5,500.0	5,495.5	5,494.7	12.2	12.2	-73.71	12.5	-42.8	45.0	20.5	24.48	1.837		
5,600.0	5,600.0	5,591.8	5,589.7	12.5	12.5	-65.68	24.2	-53.5	59.6	34.6	24.92	2.390		
5,700.0	5,699.7	5,686.7	5,682.3	12.7	12.7	51.57	39.1	-67.0	75.2	50.0	25.23	2.981		
5,800.0	5,797.4	5,779.2	5,771.7	12.9	12.9	64.07	56.9	-83.3	90.6	65.1	25.56	3.546		
5,900.0	5,891.3	5,868.3	5,856.5	13.1	13.2	77.46	77.0	-101.6	111.3	85.2	26.08	4.266		
6,000.0	5,979.6	5,952.7	5,935.6	13.4	13.5	89.44	98.7	-121.5	141.4	114.7	26.71	5.295		
6,100.0	6,065.5	6,034.5	6,010.9	13.8	13.7	99.23	122.3	-142.9	181.5	154.2	27.28	6.653		
6,200.0	6,151.4	6,115.0	6,083.7	14.3	14.1	104.95	147.7	-166.1	227.6	199.7	27.89	8.161		
6,300.0	6,237.3	6,194.0	6,153.6	14.9	14.5	108.21	174.9	-190.9	277.3	248.7	28.58	9.701		
6,400.0	6,323.2	6,274.9	6,223.7	15.5	14.9	110.11	204.6	-218.0	329.4	300.1	29.39	11.209		
6,500.0	6,409.1	6,359.6	6,297.0	16.2	15.4	111.51	236.1	-246.7	382.1	351.8	30.29	12.613		
6,600.0	6,495.0	6,444.3	6,370.2	16.9	15.9	112.56	267.5	-275.4	434.9	403.6	31.27	13.909		
6,700.0	6,584.3	6,529.2	6,443.6	17.5	16.5	128.94	299.1	-304.1	487.3	455.3	32.02	15.217		
6,800.0	6,680.4	6,612.4	6,515.5	17.8	17.1	167.00	330.0	-332.3	537.5	504.6	32.90	16.339		
6,900.0	6,778.5	6,689.5	6,582.2	18.0	17.6	-128.42	358.6	-358.4	585.5	551.7	33.76	17.345		
7,000.0	6,873.5	6,756.7	6,640.3	18.1	18.1	-100.31	383.6	-381.2	632.4	598.0	34.45	18.358		
7,100.0	6,960.6	6,810.5	6,686.8	18.1	18.5	-88.75	403.6	-399.4	679.8	644.9	34.94	19.459		
7,200.0	7,035.3	6,848.1	6,719.3	18.2	18.8	-80.98	417.5	-412.1	728.6	693.4	35.18	20.710		
7,300.0	7,093.9	6,867.7	6,736.2	18.4	19.0	-73.71	424.8	-418.8	778.6	743.6	35.04	22.220		
7,400.0	7,133.2	6,868.1	6,736.6	19.0	19.0	-66.22	424.9	-418.9	828.7	794.4	34.34	24.134		
7,500.0	7,151.3	6,849.4	6,720.4	20.0	18.8	-58.84	418.0	-412.6	876.5	843.4	33.10	26.483		
7,600.0	7,152.4	6,816.6	6,692.1	21.3	18.6	-55.11	405.8	-401.5	922.4	889.5	32.86	28.068		
7,700.0	7,152.4	7,930.4	7,321.4	22.9	22.7	-100.31	676.9	147.4	944.3	899.6	44.71	21.120		
7,800.0	7,152.4	8,030.4	7,321.4	24.7	24.5	-100.31	677.3	247.4	944.3	896.2	48.16	19.607		
7,900.0	7,152.4	8,130.4	7,321.4	26.6	26.4	-100.31	677.8	347.4	944.4	892.4	51.98	18.170		
8,000.0	7,152.4	8,230.4	7,321.4	28.7	28.5	-100.31	678.3	447.4	944.5	888.4	56.07	16.844		
8,100.0	7,152.4	8,330.4	7,321.4	31.0	30.7	-100.31	678.8	547.4	944.5	884.1	60.40	15.639		
8,200.0	7,152.4	8,430.4	7,321.4	33.3	33.0	-100.31	679.2	647.4	944.6	879.7	64.91	14.553		
8,300.0	7,152.4	8,530.4	7,321.4	35.7	35.4	-100.31	679.7	747.4	944.7	875.1	69.56	13.580		
8,400.0	7,152.4	8,630.4	7,321.4	38.1	37.8	-100.30	680.2	847.4	944.7	870.4	74.34	12.709		
8,500.0	7,152.4	8,730.4	7,321.4	40.6	40.2	-100.30	680.6	947.4	944.8	865.6	79.21	11.928		
8,600.0	7,152.4	8,830.4	7,321.4	43.1	42.7	-100.30	681.1	1,047.4	944.9	860.7	84.16	11.227		
8,700.0	7,152.4	8,930.4	7,321.4	45.7	45.3	-100.30	681.6	1,147.4	944.9	855.8	89.18	10.596		
8,800.0	7,152.4	9,030.4	7,321.4	48.3	47.8	-100.30	682.0	1,247.4	945.0	850.8	94.26	10.026		
8,900.0	7,152.4	9,130.4	7,321.4	50.9	50.4	-100.30	682.5	1,347.4	945.1	845.7	99.38	9.510		
9,000.0	7,152.4	9,230.4	7,321.4	53.5	53.0	-100.30	683.0	1,447.4	945.1	840.6	104.54	9.041		
9,100.0	7,152.4	9,330.4	7,321.4	56.1	55.7	-100.30	683.4	1,547.4	945.2	835.5	109.74	8.613		
9,200.0	7,152.4	9,430.4	7,321.4	58.8	58.3	-100.30	683.9	1,647.4	945.3	830.3	114.97	8.222		
9,300.0	7,152.4	9,530.4	7,321.4	61.5	61.0	-100.30	684.4	1,747.4	945.3	825.1	120.23	7.863		
9,400.0	7,152.4	9,630.4	7,321.4	64.2	63.7	-100.30	684.9	1,847.4	945.4	819.9	125.51	7.533		
9,500.0	7,152.4	9,730.4	7,321.4	66.8	66.3	-100.30	685.3	1,947.4	945.5	814.7	130.81	7.228		
9,600.0	7,152.4	9,830.4	7,321.4	69.5	69.0	-100.30	685.8	2,047.4	945.5	809.4	136.13	6.946		
9,700.0	7,152.4	9,930.4	7,321.4	72.3	71.7	-100.30	686.3	2,147.4	945.6	804.1	141.46	6.685		
9,800.0	7,152.4	10,030.4	7,321.4	75.0	74.4	-100.29	686.7	2,247.4	945.7	798.9	146.81	6.442		
9,900.0	7,152.4	10,130.4	7,321.4	77.7	77.2	-100.29	687.2	2,347.4	945.7	793.6	152.17	6.215		
10,000.0	7,152.4	10,230.4	7,321.4	80.4	79.9	-100.29	687.7	2,447.4	945.8	788.3	157.54	6.004		
10,100.0	7,152.4	10,330.4	7,321.4	83.2	82.6	-100.29	688.1	2,547.4	945.9	783.0	162.92	5.806		
10,200.0	7,152.4	10,430.4	7,321.4	85.9	85.3	-100.29	688.6	2,647.4	945.9	777.6	168.31	5.620		
10,300.0	7,152.4	10,530.4	7,321.4	88.6	88.1	-100.29	689.1	2,747.4	946.0	772.3	173.71	5.446		

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 IC 11-122HN
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 11-122HN	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	10,630.4	7,321.4	91.4	90.8	-100.29	689.5	2,847.4	946.1	767.0	179.12	5.282		
10,500.0	7,152.4	10,730.4	7,321.4	94.1	93.6	-100.29	690.0	2,947.4	946.1	761.6	184.53	5.127		
10,600.0	7,152.4	10,830.4	7,321.4	96.9	96.3	-100.29	690.5	3,047.4	946.2	756.3	189.95	4.981		
10,700.0	7,152.4	10,930.4	7,321.4	99.6	99.1	-100.29	690.9	3,147.4	946.3	750.9	195.38	4.843		
10,800.0	7,152.4	11,030.4	7,321.4	102.4	101.8	-100.29	691.4	3,247.4	946.3	745.5	200.81	4.713		
10,900.0	7,152.4	11,130.4	7,321.4	105.2	104.6	-100.29	691.9	3,347.4	946.4	740.2	206.24	4.589		
11,000.0	7,152.4	11,230.4	7,321.4	107.9	107.3	-100.29	692.4	3,447.4	946.5	734.8	211.68	4.471		
11,100.0	7,152.4	11,330.4	7,321.4	110.7	110.1	-100.29	692.8	3,547.4	946.5	729.4	217.13	4.359		
11,200.0	7,152.4	11,430.4	7,321.4	113.5	112.8	-100.28	693.3	3,647.4	946.6	724.0	222.58	4.253		
11,300.0	7,152.4	11,530.4	7,321.4	116.2	115.6	-100.28	693.8	3,747.4	946.7	718.6	228.03	4.151		
11,400.0	7,152.4	11,630.4	7,321.4	119.0	118.4	-100.28	694.2	3,847.4	946.7	713.2	233.49	4.055		
11,500.0	7,152.4	11,730.4	7,321.4	121.8	121.1	-100.28	694.7	3,947.4	946.8	707.9	238.95	3.962		
11,600.0	7,152.4	11,830.4	7,321.4	124.5	123.9	-100.28	695.2	4,047.4	946.9	702.5	244.41	3.874		
11,700.0	7,152.4	11,930.4	7,321.4	127.3	126.7	-100.28	695.6	4,147.4	946.9	697.1	249.87	3.790		
11,800.0	7,152.4	12,030.4	7,321.4	130.1	129.5	-100.28	696.1	4,247.4	947.0	691.7	255.34	3.709		
11,891.5	7,152.4	12,122.0	7,321.4	131.7	132.0	-100.28	696.5	4,338.9	947.1	687.6	259.44	3.650		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-122HN
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 11-122HN	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 11-159HC - 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 Tooface (°)	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)	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	160.84	-98.0	34.1	103.7				
100.0	100.0	100.0	100.0	0.1	0.1	160.84	-98.0	34.1	103.7	103.5	0.22	461.577		
200.0	200.0	200.0	200.0	0.3	0.3	160.84	-98.0	34.1	103.7	103.1	0.67	153.859		
300.0	300.0	300.0	300.0	0.6	0.6	160.84	-98.0	34.1	103.7	102.6	1.12	92.315		
400.0	400.0	400.0	400.0	0.8	0.8	160.84	-98.0	34.1	103.7	102.2	1.57	65.940		
500.0	500.0	500.0	500.0	1.0	1.0	160.84	-98.0	34.1	103.7	101.7	2.02	51.286		
600.0	600.0	600.0	600.0	1.2	1.2	160.84	-98.0	34.1	103.7	101.3	2.47	41.962		
700.0	700.0	700.0	700.0	1.5	1.5	160.84	-98.0	34.1	103.7	100.8	2.92	35.506		
800.0	800.0	800.0	800.0	1.7	1.7	160.84	-98.0	34.1	103.7	100.4	3.37	30.772		
900.0	900.0	900.0	900.0	1.9	1.9	160.84	-98.0	34.1	103.7	99.9	3.82	27.152		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	160.84	-98.0	34.1	103.7	99.5	4.27	24.294		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	160.84	-98.0	34.1	103.7	99.0	4.72	21.980		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	160.84	-98.0	34.1	103.7	98.6	5.17	20.069		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	160.84	-98.0	34.1	103.7	98.1	5.62	18.463		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	160.84	-98.0	34.1	103.7	97.7	6.07	17.095		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	160.84	-98.0	34.1	103.7	97.2	6.52	15.916		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	160.84	-98.0	34.1	103.7	96.8	6.97	14.890		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	160.84	-98.0	34.1	103.7	96.3	7.42	13.987		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	160.84	-98.0	34.1	103.7	95.9	7.87	13.188		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	160.84	-98.0	34.1	103.7	95.4	8.32	12.475		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	160.84	-98.0	34.1	103.7	95.0	8.77	11.835		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	160.84	-98.0	34.1	103.7	94.5	9.22	11.258		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	160.84	-98.0	34.1	103.7	94.1	9.66	10.734		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	160.84	-98.0	34.1	103.7	93.6	10.11	10.257		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	160.84	-98.0	34.1	103.7	93.2	10.56	9.821		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	160.84	-98.0	34.1	103.7	92.7	11.01	9.420		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	160.84	-98.0	34.1	103.7	92.3	11.46	9.051		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	160.84	-98.0	34.1	103.7	91.8	11.91	8.709		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	160.84	-98.0	34.1	103.7	91.4	12.36	8.392		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	160.84	-98.0	34.1	103.7	90.9	12.81	8.098		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	160.84	-98.0	34.1	103.7	90.5	13.26	7.823		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	160.84	-98.0	34.1	103.7	90.0	13.71	7.567		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	160.84	-98.0	34.1	103.7	89.6	14.16	7.327		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	160.84	-98.0	34.1	103.7	89.1	14.61	7.101		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	160.84	-98.0	34.1	103.7	88.7	15.06	6.889		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	160.84	-98.0	34.1	103.7	88.2	15.51	6.690		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	160.84	-98.0	34.1	103.7	87.8	15.96	6.501		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	160.84	-98.0	34.1	103.7	87.3	16.41	6.323		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	160.84	-98.0	34.1	103.7	86.9	16.86	6.154		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	160.84	-98.0	34.1	103.7	86.4	17.31	5.995		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	160.84	-98.0	34.1	103.7	86.0	17.76	5.843		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	160.84	-98.0	34.1	103.7	85.5	18.21	5.698		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	160.84	-98.0	34.1	103.7	85.1	18.66	5.561		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	160.84	-98.0	34.1	103.7	84.6	19.11	5.430		
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	160.84	-98.0	34.1	103.7	84.2	19.55	5.305		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	160.84	-98.0	34.1	103.7	83.7	20.00	5.186		
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	160.84	-98.0	34.1	103.7	83.3	20.45	5.072		
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	160.84	-98.0	34.1	103.7	82.8	20.90	4.963		
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	160.84	-98.0	34.1	103.7	82.4	21.35	4.859		
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	160.84	-98.0	34.1	103.7	81.9	21.80	4.759		
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	160.84	-98.0	34.1	103.7	81.5	22.25	4.662		
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	160.84	-98.0	34.1	103.7	81.0	22.70	4.570		

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 11-122HN
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 11-122HN	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 11-159HC - 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 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	5,200.0	5,200.0	11.6	11.6	160.84	-98.0	34.1	103.7	80.6	23.15	4.481			
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	160.84	-98.0	34.1	103.7	80.1	23.60	4.396 CC, ES			
5,400.0	5,400.0	5,398.7	5,398.7	12.0	12.0	162.20	-99.4	31.9	104.4	80.3	24.02	4.344			
5,500.0	5,500.0	5,496.9	5,496.6	12.2	12.2	166.16	-103.4	25.5	106.5	82.1	24.43	4.361			
5,600.0	5,600.0	5,594.1	5,592.9	12.5	12.4	172.28	-110.0	14.9	111.2	86.4	24.83	4.479			
5,700.0	5,699.7	5,690.7	5,688.0	12.7	12.6	-74.30	-119.1	0.3	117.7	92.5	25.22	4.666			
5,800.0	5,797.4	5,787.5	5,782.3	12.9	12.8	-73.91	-130.8	-18.4	123.2	97.6	25.59	4.815			
5,900.0	5,891.3	5,884.1	5,875.0	13.1	13.0	-77.51	-145.0	-41.1	127.7	101.6	26.04	4.902			
6,000.0	5,979.6	5,980.0	5,965.8	13.4	13.3	-84.52	-161.5	-67.5	132.7	106.1	26.69	4.974			
6,100.0	6,065.5	6,076.6	6,055.4	13.8	13.6	-91.32	-180.6	-98.0	141.0	113.6	27.44	5.139			
6,200.0	6,151.4	6,174.4	6,144.2	14.3	14.0	-95.51	-202.3	-132.7	151.6	123.3	28.27	5.360			
6,300.0	6,237.3	6,272.9	6,231.4	14.9	14.5	-97.40	-226.6	-171.5	163.2	133.9	29.26	5.577			
6,400.0	6,323.2	6,371.9	6,317.0	15.5	15.0	-97.67	-253.0	-213.7	175.1	144.7	30.40	5.762			
6,500.0	6,409.1	6,471.2	6,402.7	16.2	15.6	-97.78	-279.6	-256.2	187.2	155.5	31.66	5.912			
6,600.0	6,495.0	6,570.5	6,488.3	16.9	16.2	-97.88	-306.2	-298.7	199.2	166.2	33.02	6.033			
6,700.0	6,584.3	6,669.7	6,574.0	17.5	16.9	-86.80	-332.8	-341.3	207.4	173.1	34.31	6.044			
6,800.0	6,680.4	6,766.1	6,657.1	17.8	17.6	-46.36	-358.6	-382.5	207.0	171.9	35.08	5.900			
6,882.4	6,761.3	6,839.6	6,720.6	18.0	18.2	16.12	-378.4	-414.1	205.2	169.9	35.24	5.822			
6,900.0	6,778.5	6,853.3	6,732.5	18.0	18.3	26.82	-382.1	-419.7	205.4	170.1	35.24	5.828			
7,000.0	6,873.5	6,935.3	6,806.8	18.1	18.7	64.03	-405.1	-445.1	214.1	179.0	35.08	6.103			
7,100.0	6,960.6	7,026.9	6,893.5	18.1	19.1	83.37	-431.9	-456.0	235.5	200.6	34.86	6.756			
7,200.0	7,035.3	7,133.9	6,994.9	18.2	19.3	96.51	-463.2	-444.6	266.6	232.1	34.50	7.729			
7,300.0	7,093.9	7,265.8	7,111.7	18.4	19.4	106.52	-499.1	-396.2	301.9	267.9	33.99	8.883			
7,400.0	7,133.2	7,436.1	7,233.4	19.0	19.3	114.14	-536.3	-284.6	333.6	299.8	33.75	9.885			
7,500.0	7,151.3	7,650.9	7,315.3	20.0	19.8	118.33	-560.9	-89.8	351.5	316.4	35.15	10.000			
7,600.0	7,152.4	7,794.0	7,321.4	21.3	21.2	118.62	-562.2	52.9	352.8	315.1	37.71	9.354			
7,700.0	7,152.4	7,894.0	7,321.4	22.9	22.6	118.62	-561.8	152.9	352.8	312.4	40.40	8.734			
7,800.0	7,152.4	7,994.0	7,321.4	24.7	24.4	118.62	-561.5	252.9	352.8	309.4	43.48	8.115			
7,900.0	7,152.4	8,094.0	7,321.4	26.6	26.3	118.62	-561.1	352.9	352.9	306.0	46.90	7.524			
8,000.0	7,152.4	8,194.0	7,321.4	28.7	28.4	118.61	-560.7	452.9	352.9	302.3	50.57	6.978			
8,100.0	7,152.4	8,294.0	7,321.4	31.0	30.6	118.61	-560.3	552.9	352.9	298.4	54.45	6.481			
8,200.0	7,152.4	8,394.0	7,321.4	33.3	32.8	118.61	-560.0	652.9	352.9	294.4	58.50	6.033			
8,300.0	7,152.4	8,494.0	7,321.4	35.7	35.2	118.61	-559.6	752.9	352.9	290.3	62.69	5.630			
8,400.0	7,152.4	8,594.0	7,321.4	38.1	37.6	118.61	-559.2	852.9	353.0	286.0	66.98	5.270			
8,500.0	7,152.4	8,694.0	7,321.4	40.6	40.1	118.61	-558.8	952.9	353.0	281.6	71.36	4.946			
8,600.0	7,152.4	8,794.0	7,321.4	43.1	42.6	118.60	-558.5	1,052.9	353.0	277.2	75.82	4.656			
8,700.0	7,152.4	8,894.0	7,321.4	45.7	45.1	118.60	-558.1	1,152.9	353.0	272.7	80.34	4.394			
8,800.0	7,152.4	8,994.0	7,321.4	48.3	47.7	118.60	-557.7	1,252.9	353.1	268.1	84.91	4.158			
8,900.0	7,152.4	9,094.0	7,321.4	50.9	50.3	118.60	-557.3	1,352.9	353.1	263.6	89.52	3.944			
9,000.0	7,152.4	9,194.0	7,321.4	53.5	52.9	118.60	-556.9	1,452.9	353.1	258.9	94.18	3.749			
9,100.0	7,152.4	9,294.0	7,321.4	56.1	55.5	118.59	-556.6	1,552.9	353.1	254.3	98.86	3.572			
9,200.0	7,152.4	9,394.0	7,321.4	58.8	58.2	118.59	-556.2	1,652.9	353.1	249.6	103.57	3.410			
9,300.0	7,152.4	9,494.0	7,321.4	61.5	60.8	118.59	-555.8	1,752.9	353.2	244.9	108.31	3.261			
9,400.0	7,152.4	9,594.0	7,321.4	64.2	63.5	118.59	-555.4	1,852.9	353.2	240.1	113.07	3.124			
9,500.0	7,152.4	9,694.0	7,321.4	66.8	66.2	118.59	-555.1	1,952.9	353.2	235.4	117.84	2.997			
9,600.0	7,152.4	9,794.0	7,321.4	69.5	68.9	118.58	-554.7	2,052.9	353.2	230.6	122.64	2.880			
9,700.0	7,152.4	9,894.0	7,321.4	72.3	71.6	118.58	-554.3	2,152.9	353.3	225.8	127.45	2.772			
9,800.0	7,152.4	9,994.0	7,321.4	75.0	74.3	118.58	-553.9	2,252.9	353.3	221.0	132.27	2.671			
9,900.0	7,152.4	10,094.0	7,321.4	77.7	77.0	118.58	-553.6	2,352.9	353.3	216.2	137.10	2.577			
10,000.0	7,152.4	10,194.0	7,321.4	80.4	79.8	118.58	-553.2	2,452.9	353.3	211.4	141.94	2.489			
10,100.0	7,152.4	10,294.0	7,321.4	83.2	82.5	118.57	-552.8	2,552.9	353.3	206.5	146.80	2.407			
10,200.0	7,152.4	10,394.0	7,321.4	85.9	85.2	118.57	-552.4	2,652.9	353.4	201.7	151.66	2.330			

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 11-122HN
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 11-122HN	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 11-159HC - 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		
10,300.0	7,152.4	10,494.0	7,321.4	88.6	88.0	118.57	-552.1	2,752.9	353.4	196.9	156.53	2.258		
10,400.0	7,152.4	10,594.0	7,321.4	91.4	90.7	118.57	-551.7	2,852.9	353.4	192.0	161.40	2.190		
10,500.0	7,152.4	10,694.0	7,321.4	94.1	93.4	118.57	-551.3	2,952.9	353.4	187.1	166.29	2.125		
10,600.0	7,152.4	10,794.0	7,321.4	96.9	96.2	118.56	-550.9	3,052.9	353.4	182.3	171.18	2.065		
10,700.0	7,152.4	10,894.0	7,321.4	99.6	98.9	118.56	-550.5	3,152.9	353.5	177.4	176.07	2.008		
10,800.0	7,152.4	10,994.0	7,321.4	102.4	101.7	118.56	-550.2	3,252.9	353.5	172.5	180.97	1.953		
10,900.0	7,152.4	11,094.0	7,321.4	105.2	104.5	118.56	-549.8	3,352.9	353.5	167.6	185.88	1.902		
11,000.0	7,152.4	11,194.0	7,321.4	107.9	107.2	118.56	-549.4	3,452.9	353.5	162.8	190.78	1.853		
11,100.0	7,152.4	11,294.0	7,321.4	110.7	110.0	118.55	-549.0	3,552.9	353.6	157.9	195.70	1.807		
11,200.0	7,152.4	11,394.0	7,321.4	113.5	112.7	118.55	-548.7	3,652.9	353.6	153.0	200.61	1.762		
11,300.0	7,152.4	11,494.0	7,321.4	116.2	115.5	118.55	-548.3	3,752.9	353.6	148.1	205.53	1.720		
11,400.0	7,152.4	11,594.0	7,321.4	119.0	118.3	118.55	-547.9	3,852.9	353.6	143.2	210.46	1.680		
11,500.0	7,152.4	11,694.0	7,321.4	121.8	121.0	118.55	-547.5	3,952.9	353.6	138.3	215.38	1.642		
11,600.0	7,152.4	11,794.0	7,321.4	124.5	123.8	118.55	-547.2	4,052.9	353.7	133.4	220.31	1.605		
11,700.0	7,152.4	11,894.0	7,321.4	127.3	126.6	118.54	-546.8	4,152.9	353.7	128.4	225.24	1.570		
11,800.0	7,152.4	11,994.0	7,321.4	130.1	129.4	118.54	-546.4	4,252.9	353.7	123.5	230.18	1.537		
11,853.1	7,152.4	12,047.1	7,321.4	131.0	130.8	118.54	-546.2	4,306.0	353.7	121.4	232.32	1.523		
11,891.5	7,152.4	12,083.0	7,321.4	131.7	131.8	118.54	-546.1	4,341.9	353.7	119.9	233.81	1.513 SF		

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 11-122HN
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 11-122HN	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:	0.0R
Survey Program: 0-MWD														Offset Well Error:	0.0R
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	177.74	-99.1	3.9	99.2						
100.0	100.0	100.0	100.0	0.1	0.1	177.74	-99.1	3.9	99.2	98.9	0.22	441.202			
200.0	200.0	200.0	200.0	0.3	0.3	177.74	-99.1	3.9	99.2	98.5	0.67	147.067			
300.0	300.0	300.0	300.0	0.6	0.6	177.74	-99.1	3.9	99.2	98.0	1.12	88.240			
400.0	400.0	400.0	400.0	0.8	0.8	177.74	-99.1	3.9	99.2	97.6	1.57	63.029			
500.0	500.0	500.0	500.0	1.0	1.0	177.74	-99.1	3.9	99.2	97.1	2.02	49.022			
600.0	600.0	600.0	600.0	1.2	1.2	177.74	-99.1	3.9	99.2	96.7	2.47	40.109			
700.0	700.0	700.0	700.0	1.5	1.5	177.74	-99.1	3.9	99.2	96.2	2.92	33.939			
800.0	800.0	800.0	800.0	1.7	1.7	177.74	-99.1	3.9	99.2	95.8	3.37	29.413			
900.0	900.0	900.0	900.0	1.9	1.9	177.74	-99.1	3.9	99.2	95.3	3.82	25.953			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	177.74	-99.1	3.9	99.2	94.9	4.27	23.221			
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	177.74	-99.1	3.9	99.2	94.4	4.72	21.010			
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	177.74	-99.1	3.9	99.2	94.0	5.17	19.183			
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	177.74	-99.1	3.9	99.2	93.5	5.62	17.648			
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	177.74	-99.1	3.9	99.2	93.1	6.07	16.341			
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	177.74	-99.1	3.9	99.2	92.6	6.52	15.214			
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	177.74	-99.1	3.9	99.2	92.2	6.97	14.232			
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	177.74	-99.1	3.9	99.2	91.7	7.42	13.370			
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	177.74	-99.1	3.9	99.2	91.3	7.87	12.606			
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	177.74	-99.1	3.9	99.2	90.9	8.32	11.924			
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	177.74	-99.1	3.9	99.2	90.4	8.77	11.313			
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	177.74	-99.1	3.9	99.2	90.0	9.22	10.761			
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	177.74	-99.1	3.9	99.2	89.5	9.66	10.261			
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	177.74	-99.1	3.9	99.2	89.1	10.11	9.804			
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	177.74	-99.1	3.9	99.2	88.6	10.56	9.387			
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	177.74	-99.1	3.9	99.2	88.2	11.01	9.004			
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	177.74	-99.1	3.9	99.2	87.7	11.46	8.651			
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	177.74	-99.1	3.9	99.2	87.3	11.91	8.325			
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	177.74	-99.1	3.9	99.2	86.8	12.36	8.022			
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	177.74	-99.1	3.9	99.2	86.4	12.81	7.740			
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	177.74	-99.1	3.9	99.2	85.9	13.26	7.478			
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	177.74	-99.1	3.9	99.2	85.5	13.71	7.233			
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	177.74	-99.1	3.9	99.2	85.0	14.16	7.003			
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	177.74	-99.1	3.9	99.2	84.6	14.61	6.788			
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	177.74	-99.1	3.9	99.2	84.1	15.06	6.585			
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	177.74	-99.1	3.9	99.2	83.7	15.51	6.394			
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	177.74	-99.1	3.9	99.2	83.2	15.96	6.214			
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	177.74	-99.1	3.9	99.2	82.8	16.41	6.044			
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	177.74	-99.1	3.9	99.2	82.3	16.86	5.883			
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	177.74	-99.1	3.9	99.2	81.9	17.31	5.730			
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	177.74	-99.1	3.9	99.2	81.4	17.76	5.585			
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	177.74	-99.1	3.9	99.2	81.0	18.21	5.447			
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	177.74	-99.1	3.9	99.2	80.5	18.66	5.316			
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	177.74	-99.1	3.9	99.2	80.1	19.11	5.191			
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	177.74	-99.1	3.9	99.2	79.6	19.55	5.071			
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	177.74	-99.1	3.9	99.2	79.2	20.00	4.957			
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	177.74	-99.1	3.9	99.2	78.7	20.45	4.848			
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	177.74	-99.1	3.9	99.2	78.3	20.90	4.744			
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	177.74	-99.1	3.9	99.2	77.8	21.35	4.644			
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	177.74	-99.1	3.9	99.2	77.4	21.80	4.548 CC, ES			
5,000.0	5,000.0	4,997.0	4,996.9	11.1	11.1	178.33	-100.3	2.9	100.4	78.2	22.22	4.517			
5,100.0	5,100.0	5,092.8	5,092.5	11.4	11.3	-179.44	-105.1	-1.0	105.4	82.8	22.61	4.661			

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 IC 11-122HN
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 11-122HN	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:	0.0ft
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 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	5,187.7	5,186.9	11.6	11.4	-176.01	-113.6	-7.9	114.6	91.6	23.01	4.983		
5,300.0	5,300.0	5,281.4	5,279.2	11.8	11.6	-172.01	-125.5	-17.6	128.4	105.0	23.40	5.488		
5,400.0	5,400.0	5,373.3	5,369.1	12.0	11.8	-167.99	-140.6	-29.9	147.0	123.2	23.81	6.175		
5,500.0	5,500.0	5,463.1	5,455.8	12.2	12.0	-164.31	-158.6	-44.5	170.5	146.3	24.24	7.036		
5,600.0	5,600.0	5,550.6	5,539.2	12.5	12.2	-161.12	-179.1	-61.2	198.8	174.1	24.68	8.053		
5,700.0	5,699.7	5,637.0	5,620.3	12.7	12.5	-49.38	-202.2	-80.1	227.4	202.5	24.88	9.139		
5,800.0	5,797.4	5,723.6	5,700.1	12.9	12.8	-48.71	-228.2	-101.3	251.5	226.5	25.01	10.056		
5,900.0	5,891.3	5,809.7	5,777.9	13.1	13.1	-49.92	-256.9	-124.6	271.1	246.1	25.07	10.814		
6,000.0	5,979.6	5,900.0	5,857.6	13.4	13.5	-52.95	-289.8	-151.4	287.1	261.8	25.33	11.336		
6,100.0	6,065.5	5,986.5	5,932.4	13.8	14.0	-56.68	-323.4	-178.8	304.7	278.6	26.15	11.653		
6,200.0	6,151.4	6,082.5	6,015.4	14.3	14.5	-60.37	-360.9	-209.3	324.1	297.0	27.12	11.950		
6,300.0	6,237.3	6,178.5	6,098.3	14.9	15.1	-63.64	-398.3	-239.8	344.7	316.5	28.19	12.225		
6,400.0	6,323.2	6,274.5	6,181.3	15.5	15.7	-66.55	-435.7	-270.3	366.2	336.8	29.36	12.472		
6,500.0	6,409.1	6,370.5	6,264.2	16.2	16.4	-69.15	-473.2	-300.8	388.6	358.0	30.62	12.689		
6,600.0	6,495.0	6,466.5	6,347.2	16.9	17.1	-71.46	-510.6	-331.3	411.7	379.7	31.97	12.877		
6,700.0	6,584.3	6,563.3	6,430.9	17.5	17.8	-65.08	-548.4	-362.1	434.6	401.3	33.33	13.041		
6,800.0	6,680.4	6,659.7	6,514.2	17.8	18.6	-32.49	-586.0	-392.7	455.6	421.4	34.21	13.321		
6,900.0	6,778.5	6,750.8	6,593.0	18.0	19.3	30.90	-621.6	-421.6	475.6	441.0	34.64	13.731		
7,000.0	6,873.5	6,834.1	6,665.7	18.1	19.9	59.31	-654.4	-445.5	497.8	463.0	34.81	14.301		
7,100.0	6,960.6	6,924.3	6,747.3	18.1	20.4	70.73	-691.1	-455.3	523.7	488.8	34.91	15.000		
7,200.0	7,035.3	7,029.5	6,842.4	18.2	20.8	77.38	-733.9	-443.5	552.1	517.0	35.10	15.729		
7,300.0	7,093.9	7,159.6	6,952.2	18.4	21.1	82.49	-783.2	-395.4	580.5	545.0	35.50	16.354		
7,400.0	7,133.2	7,328.7	7,067.7	19.0	21.1	86.95	-834.8	-284.7	604.8	568.5	36.37	16.629		
7,500.0	7,151.3	7,544.2	7,146.4	20.0	20.8	89.79	-869.7	-89.6	618.4	579.7	38.63	16.009		
7,600.0	7,152.4	7,688.0	7,152.4	21.3	20.5	90.00	-871.9	53.9	619.4	577.8	41.54	14.911		
7,700.0	7,152.4	7,788.0	7,152.4	22.9	21.9	90.00	-871.6	153.9	619.4	574.8	44.59	13.892		
7,800.0	7,152.4	7,888.0	7,152.4	24.7	23.7	90.00	-871.2	253.9	619.5	571.4	48.10	12.879		
7,900.0	7,152.4	7,988.0	7,152.4	26.6	25.7	90.00	-870.9	353.9	619.6	567.6	51.98	11.918		
8,000.0	7,152.4	8,088.0	7,152.4	28.7	27.8	90.00	-870.6	453.8	619.6	563.5	56.16	11.033		
8,100.0	7,152.4	8,188.0	7,152.4	31.0	30.0	90.00	-870.2	553.8	619.7	559.1	60.57	10.231		
8,200.0	7,152.4	8,288.0	7,152.4	33.3	32.3	90.00	-869.9	653.8	619.8	554.6	65.16	9.511		
8,300.0	7,152.4	8,388.0	7,152.4	35.7	34.7	90.00	-869.6	753.8	619.8	549.9	69.90	8.867		
8,400.0	7,152.4	8,488.0	7,152.4	38.1	37.1	90.00	-869.2	853.8	619.9	545.1	74.77	8.291		
8,500.0	7,152.4	8,588.0	7,152.4	40.6	39.6	90.00	-868.9	953.8	620.0	540.2	79.73	7.776		
8,600.0	7,152.4	8,688.0	7,152.4	43.1	42.1	90.00	-868.6	1,053.8	620.0	535.3	84.77	7.314		
8,700.0	7,152.4	8,788.0	7,152.4	45.7	44.7	90.00	-868.2	1,153.8	620.1	530.2	89.88	6.899		
8,800.0	7,152.4	8,888.0	7,152.4	48.3	47.2	90.00	-867.9	1,253.8	620.2	525.1	95.04	6.525		
8,900.0	7,152.4	8,988.0	7,152.4	50.9	49.8	90.00	-867.5	1,353.8	620.2	520.0	100.26	6.186		
9,000.0	7,152.4	9,088.0	7,152.4	53.5	52.4	90.00	-867.2	1,453.8	620.3	514.8	105.51	5.879		
9,100.0	7,152.4	9,188.0	7,152.4	56.1	55.1	90.00	-866.9	1,553.8	620.4	509.6	110.80	5.599		
9,200.0	7,152.4	9,288.0	7,152.4	58.8	57.7	90.00	-866.5	1,653.8	620.4	504.3	116.12	5.343		
9,300.0	7,152.4	9,388.0	7,152.4	61.5	60.4	90.00	-866.2	1,753.8	620.5	499.0	121.47	5.108		
9,400.0	7,152.4	9,488.0	7,152.4	64.2	63.1	90.00	-865.9	1,853.8	620.6	493.7	126.83	4.893		
9,500.0	7,152.4	9,588.0	7,152.4	66.8	65.8	90.00	-865.5	1,953.8	620.6	488.4	132.22	4.694		
9,600.0	7,152.4	9,688.0	7,152.4	69.5	68.4	90.00	-865.2	2,053.8	620.7	483.1	137.63	4.510		
9,700.0	7,152.4	9,788.0	7,152.4	72.3	71.2	90.00	-864.9	2,153.8	620.8	477.7	143.05	4.339		
9,800.0	7,152.4	9,888.0	7,152.4	75.0	73.9	90.00	-864.5	2,253.8	620.8	472.3	148.49	4.181		
9,900.0	7,152.4	9,988.0	7,152.4	77.7	76.6	90.00	-864.2	2,353.8	620.9	467.0	153.93	4.033		
10,000.0	7,152.4	10,088.0	7,152.4	80.4	79.3	90.00	-863.9	2,453.8	621.0	461.6	159.39	3.896		
10,100.0	7,152.4	10,188.0	7,152.4	83.2	82.0	90.00	-863.5	2,553.8	621.0	456.2	164.86	3.767		
10,200.0	7,152.4	10,288.0	7,152.4	85.9	84.8	90.00	-863.2	2,653.8	621.1	450.8	170.34	3.646		
10,300.0	7,152.4	10,388.0	7,152.4	88.6	87.5	90.00	-862.9	2,753.8	621.2	445.3	175.83	3.533		

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 IC 11-122HN
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 11-122HN	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	7,152.4	10,488.0	7,152.4	91.4	90.2	90.00	-862.5	2,853.8	621.2	439.9	181.32	3.426		
10,500.0	7,152.4	10,588.0	7,152.4	94.1	93.0	90.00	-862.2	2,953.8	621.3	434.5	186.82	3.326		
10,600.0	7,152.4	10,688.0	7,152.4	96.9	95.7	90.00	-861.9	3,053.8	621.4	429.0	192.33	3.231		
10,700.0	7,152.4	10,788.0	7,152.4	99.6	98.5	90.00	-861.5	3,153.8	621.4	423.6	197.85	3.141		
10,800.0	7,152.4	10,888.0	7,152.4	102.4	101.2	90.00	-861.2	3,253.8	621.5	418.1	203.36	3.056		
10,900.0	7,152.4	10,988.0	7,152.4	105.2	104.0	90.00	-860.8	3,353.8	621.6	412.7	208.89	2.976		
11,000.0	7,152.4	11,088.0	7,152.4	107.9	106.8	90.00	-860.5	3,453.8	621.6	407.2	214.42	2.899		
11,100.0	7,152.4	11,188.0	7,152.4	110.7	109.5	90.00	-860.2	3,553.8	621.7	401.7	219.95	2.827		
11,200.0	7,152.4	11,288.0	7,152.4	113.5	112.3	90.00	-859.8	3,653.8	621.8	396.3	225.48	2.757		
11,300.0	7,152.4	11,388.0	7,152.4	116.2	115.0	90.00	-859.5	3,753.8	621.8	390.8	231.02	2.692		
11,400.0	7,152.4	11,488.0	7,152.4	119.0	117.8	90.00	-859.2	3,853.8	621.9	385.3	236.57	2.629		
11,500.0	7,152.4	11,588.0	7,152.4	121.8	120.6	90.00	-858.8	3,953.8	622.0	379.8	242.11	2.569		
11,600.0	7,152.4	11,688.0	7,152.4	124.5	123.4	90.00	-858.5	4,053.8	622.0	374.4	247.66	2.512		
11,700.0	7,152.4	11,788.0	7,152.4	127.3	126.1	90.00	-858.2	4,153.8	622.1	368.9	253.21	2.457		
11,800.0	7,152.4	11,888.0	7,152.4	130.1	128.9	90.00	-857.8	4,253.8	622.2	363.4	258.77	2.404		
11,849.3	7,152.4	11,937.3	7,152.4	131.0	129.9	90.00	-857.7	4,303.1	622.2	361.6	260.63	2.387		
11,891.5	7,152.4	11,974.5	7,152.4	131.7	130.6	90.00	-857.5	4,340.3	622.2	360.2	262.04	2.375 SF		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-122HN
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 11-122HN	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 11-239HN - 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	
0.0	0.0	0.0	0.0	0.0	0.0	-165.77	-101.3	-25.7	104.5					
100.0	100.0	100.0	100.0	0.1	0.1	-165.77	-101.3	-25.7	104.5	104.3	0.22	464.847		
200.0	200.0	200.0	200.0	0.3	0.3	-165.77	-101.3	-25.7	104.5	103.8	0.67	154.949		
300.0	300.0	300.0	300.0	0.6	0.6	-165.77	-101.3	-25.7	104.5	103.4	1.12	92.969		
400.0	400.0	400.0	400.0	0.8	0.8	-165.77	-101.3	-25.7	104.5	102.9	1.57	66.407		
500.0	500.0	500.0	500.0	1.0	1.0	-165.77	-101.3	-25.7	104.5	102.5	2.02	51.650		
600.0	600.0	600.0	600.0	1.2	1.2	-165.77	-101.3	-25.7	104.5	102.0	2.47	42.259		
700.0	700.0	700.0	700.0	1.5	1.5	-165.77	-101.3	-25.7	104.5	101.6	2.92	35.757		
800.0	800.0	800.0	800.0	1.7	1.7	-165.77	-101.3	-25.7	104.5	101.1	3.37	30.990		
900.0	900.0	900.0	900.0	1.9	1.9	-165.77	-101.3	-25.7	104.5	100.7	3.82	27.344		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-165.77	-101.3	-25.7	104.5	100.2	4.27	24.466		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-165.77	-101.3	-25.7	104.5	99.8	4.72	22.136		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-165.77	-101.3	-25.7	104.5	99.3	5.17	20.211		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-165.77	-101.3	-25.7	104.5	98.9	5.62	18.594		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-165.77	-101.3	-25.7	104.5	98.4	6.07	17.217		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-165.77	-101.3	-25.7	104.5	98.0	6.52	16.029		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-165.77	-101.3	-25.7	104.5	97.5	6.97	14.995		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-165.77	-101.3	-25.7	104.5	97.1	7.42	14.086		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-165.77	-101.3	-25.7	104.5	96.6	7.87	13.281		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-165.77	-101.3	-25.7	104.5	96.2	8.32	12.563		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-165.77	-101.3	-25.7	104.5	95.7	8.77	11.919		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-165.77	-101.3	-25.7	104.5	95.3	9.22	11.338		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-165.77	-101.3	-25.7	104.5	94.8	9.66	10.810		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-165.77	-101.3	-25.7	104.5	94.4	10.11	10.330		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-165.77	-101.3	-25.7	104.5	93.9	10.56	9.890		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-165.77	-101.3	-25.7	104.5	93.5	11.01	9.487		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-165.77	-101.3	-25.7	104.5	93.0	11.46	9.115		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-165.77	-101.3	-25.7	104.5	92.6	11.91	8.771		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-165.77	-101.3	-25.7	104.5	92.1	12.36	8.452		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-165.77	-101.3	-25.7	104.5	91.7	12.81	8.155		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-165.77	-101.3	-25.7	104.5	91.2	13.26	7.879		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-165.77	-101.3	-25.7	104.5	90.8	13.71	7.620		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-165.77	-101.3	-25.7	104.5	90.3	14.16	7.379		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-165.77	-101.3	-25.7	104.5	89.9	14.61	7.151		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-165.77	-101.3	-25.7	104.5	89.4	15.06	6.938		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-165.77	-101.3	-25.7	104.5	89.0	15.51	6.737		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-165.77	-101.3	-25.7	104.5	88.5	15.96	6.547		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-165.77	-101.3	-25.7	104.5	88.1	16.41	6.368		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-165.77	-101.3	-25.7	104.5	87.6	16.86	6.198		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-165.77	-101.3	-25.7	104.5	87.2	17.31	6.037		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-165.77	-101.3	-25.7	104.5	86.7	17.76	5.884		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-165.77	-101.3	-25.7	104.5	86.3	18.21	5.739 CC, ES		
4,200.0	4,200.0	4,194.8	4,194.7	9.3	9.3	-165.64	-103.5	-26.5	107.0	88.3	18.62	5.745		
4,300.0	4,300.0	4,289.1	4,288.7	9.6	9.5	-165.29	-110.1	-28.9	114.3	95.3	19.00	6.018		
4,400.0	4,400.0	4,382.4	4,381.4	9.8	9.6	-164.79	-120.8	-32.9	126.6	107.2	19.39	6.531		
4,500.0	4,500.0	4,474.5	4,472.1	10.0	9.8	-164.24	-135.6	-38.3	143.7	123.9	19.78	7.264		
4,600.0	4,600.0	4,564.8	4,560.2	10.2	10.0	-163.70	-154.1	-45.1	165.4	145.2	20.18	8.196		
4,700.0	4,700.0	4,653.0	4,645.3	10.5	10.2	-163.22	-175.9	-53.1	191.7	171.1	20.61	9.304		
4,800.0	4,800.0	4,738.9	4,727.1	10.7	10.4	-162.80	-200.7	-62.1	222.4	201.3	21.05	10.565		
4,900.0	4,900.0	4,822.2	4,805.1	10.9	10.6	-162.44	-228.0	-72.1	257.2	235.7	21.51	11.957		
5,000.0	5,000.0	4,900.0	4,876.8	11.1	10.9	-162.15	-256.3	-82.5	296.1	274.1	22.00	13.462		
5,100.0	5,100.0	4,980.3	4,949.4	11.4	11.2	-161.90	-288.4	-94.3	338.7	316.2	22.53	15.032		

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 11-122HN
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 11-122HN	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)	Hlghside 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	5,054.8	5,015.5	11.6	11.6	-161.69	-320.7	-106.1	384.9	361.8	23.09	16.672		
5,300.0	5,300.0	5,129.5	5,080.4	11.8	11.9	-161.51	-355.5	-118.9	434.4	410.8	23.68	18.348		
5,400.0	5,400.0	5,215.7	5,154.8	12.0	12.4	-161.34	-396.4	-133.9	485.0	460.6	24.37	19.901		
5,500.0	5,500.0	5,302.0	5,229.2	12.2	13.0	-161.20	-437.4	-148.9	535.5	510.5	25.10	21.340		
5,600.0	5,600.0	5,388.3	5,303.6	12.5	13.5	-161.09	-478.4	-163.9	586.1	560.3	25.86	22.669		
5,700.0	5,699.7	5,476.5	5,379.7	12.7	14.1	-49.79	-520.2	-179.3	632.9	608.5	24.38	25.955		
5,800.0	5,797.4	5,567.3	5,458.1	12.9	14.8	-48.63	-563.4	-195.1	671.7	647.1	24.62	27.287		
5,900.0	5,891.3	5,659.1	5,537.3	13.1	15.5	-48.78	-607.0	-211.1	702.5	677.8	24.75	28.387		
6,000.0	5,979.6	5,750.0	5,615.7	13.4	16.2	-50.16	-650.1	-226.9	725.8	700.9	24.96	29.078		
6,100.0	6,065.5	5,840.3	5,693.6	13.8	16.9	-52.89	-693.0	-242.6	747.8	722.1	25.71	29.086		
6,200.0	6,151.4	5,930.6	5,771.5	14.3	17.6	-55.48	-735.8	-258.3	771.6	745.0	26.55	29.060		
6,300.0	6,237.3	6,020.8	5,849.3	14.9	18.4	-57.93	-778.7	-274.0	796.9	769.5	27.49	28.995		
6,400.0	6,323.2	6,111.1	5,927.2	15.5	19.1	-60.25	-821.6	-289.7	823.8	795.3	28.51	28.892		
6,500.0	6,409.1	6,201.3	6,005.1	16.2	19.9	-62.43	-864.4	-305.4	852.0	822.3	29.63	28.756		
6,600.0	6,495.0	6,291.6	6,082.9	16.9	20.7	-64.49	-907.3	-321.2	881.4	850.5	30.82	28.592		
6,700.0	6,584.3	6,383.8	6,162.5	17.5	21.5	-59.55	-951.1	-337.2	912.0	879.7	32.33	28.206		
6,800.0	6,680.4	6,478.7	6,244.4	17.8	22.3	-30.31	-996.1	-353.7	942.8	909.2	33.63	28.034		
6,900.0	6,778.5	6,571.6	6,324.5	18.0	23.1	28.96	-1,040.2	-369.9	972.1	937.5	34.52	28.162		
7,000.0	6,873.5	6,657.6	6,398.7	18.1	23.9	53.61	-1,081.1	-384.9	999.7	964.7	34.98	28.580		
7,100.0	6,960.6	6,732.4	6,463.2	18.1	24.6	61.87	-1,116.6	-397.9	1,026.8	991.6	35.15	29.214		
7,200.0	7,035.3	6,792.1	6,514.7	18.2	25.1	64.98	-1,144.9	-408.3	1,054.7	1,019.5	35.18	29.980		
7,300.0	7,093.9	6,833.7	6,550.6	18.4	25.5	65.22	-1,164.7	-415.5	1,084.8	1,049.6	35.14	30.867		
7,400.0	7,133.2	6,855.0	6,569.0	19.0	25.7	63.13	-1,174.8	-419.2	1,117.4	1,082.5	34.92	31.995		
7,500.0	7,151.3	6,854.9	6,568.9	20.0	25.7	59.04	-1,174.8	-419.2	1,151.9	1,117.6	34.35	33.535		
7,600.0	7,152.4	6,838.4	6,554.7	21.3	25.5	56.77	-1,166.9	-416.3	1,188.5	1,153.8	34.67	34.275		
7,700.0	7,152.4	6,820.8	6,539.5	22.9	25.4	55.87	-1,158.6	-413.3	1,231.5	1,195.8	35.70	34.498		
7,800.0	7,152.4	8,040.8	7,152.4	24.7	30.1	90.00	-1,494.1	254.8	1,242.3	1,194.4	47.98	25.893		
7,900.0	7,152.4	8,140.8	7,152.4	26.6	30.7	90.00	-1,493.8	354.8	1,242.5	1,190.7	51.78	23.994		
8,000.0	7,152.4	8,240.8	7,152.4	28.7	31.7	90.00	-1,493.6	454.8	1,242.7	1,186.8	55.89	22.232		
8,100.0	7,152.4	8,340.8	7,152.4	31.0	33.1	90.00	-1,493.3	554.8	1,242.8	1,182.6	60.25	20.629		
8,200.0	7,152.4	8,440.8	7,152.4	33.3	34.9	90.00	-1,493.1	654.8	1,243.0	1,178.2	64.79	19.183		
8,300.0	7,152.4	8,540.8	7,152.4	35.7	36.8	90.00	-1,492.9	754.8	1,243.1	1,173.6	69.50	17.887		
8,400.0	7,152.4	8,640.8	7,152.4	38.1	38.9	90.00	-1,492.6	854.8	1,243.3	1,169.0	74.33	16.727		
8,500.0	7,152.4	8,740.8	7,152.4	40.6	41.2	90.00	-1,492.4	954.8	1,243.4	1,164.2	79.26	15.688		
8,600.0	7,152.4	8,840.8	7,152.4	43.1	43.5	90.00	-1,492.1	1,054.8	1,243.6	1,159.3	84.28	14.756		
8,700.0	7,152.4	8,940.8	7,152.4	45.7	45.9	90.00	-1,491.9	1,154.8	1,243.8	1,154.4	89.37	13.917		
8,800.0	7,152.4	9,040.8	7,152.4	48.3	48.3	90.00	-1,491.6	1,254.8	1,243.9	1,149.4	94.51	13.161		
8,900.0	7,152.4	9,140.8	7,152.4	50.9	50.8	90.00	-1,491.4	1,354.8	1,244.1	1,144.4	99.71	12.477		
9,000.0	7,152.4	9,240.8	7,152.4	53.5	53.3	90.00	-1,491.2	1,454.8	1,244.2	1,139.3	104.95	11.855		
9,100.0	7,152.4	9,340.8	7,152.4	56.1	55.9	90.00	-1,490.9	1,554.8	1,244.4	1,134.2	110.23	11.289		
9,200.0	7,152.4	9,440.8	7,152.4	58.8	58.5	90.00	-1,490.7	1,654.8	1,244.6	1,129.0	115.54	10.772		
9,300.0	7,152.4	9,540.8	7,152.4	61.5	61.1	90.00	-1,490.4	1,754.8	1,244.7	1,123.8	120.87	10.298		
9,400.0	7,152.4	9,640.8	7,152.4	64.2	63.7	90.00	-1,490.2	1,854.8	1,244.9	1,118.6	126.23	9.862		
9,500.0	7,152.4	9,740.8	7,152.4	66.8	66.3	90.00	-1,489.9	1,954.8	1,245.0	1,113.4	131.61	9.460		
9,600.0	7,152.4	9,840.8	7,152.4	69.5	68.9	90.00	-1,489.7	2,054.8	1,245.2	1,108.2	137.01	9.088		
9,700.0	7,152.4	9,940.8	7,152.4	72.3	71.6	90.00	-1,489.5	2,154.8	1,245.3	1,102.9	142.43	8.744		
9,800.0	7,152.4	10,040.8	7,152.4	75.0	74.3	90.00	-1,489.2	2,254.8	1,245.5	1,097.6	147.86	8.424		
9,900.0	7,152.4	10,140.8	7,152.4	77.7	76.9	90.00	-1,489.0	2,354.8	1,245.7	1,092.4	153.30	8.126		
10,000.0	7,152.4	10,240.8	7,152.4	80.4	79.6	90.00	-1,488.7	2,454.8	1,245.8	1,087.1	158.75	7.848		
10,100.0	7,152.4	10,340.8	7,152.4	83.2	82.3	90.00	-1,488.5	2,554.8	1,246.0	1,081.8	164.22	7.587		
10,200.0	7,152.4	10,440.8	7,152.4	85.9	85.0	90.00	-1,488.2	2,654.8	1,246.1	1,076.4	169.69	7.344		
10,300.0	7,152.4	10,540.8	7,152.4	88.6	87.7	90.00	-1,488.0	2,754.8	1,246.3	1,071.1	175.17	7.115		

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 11-122HN
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 11-122HN	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

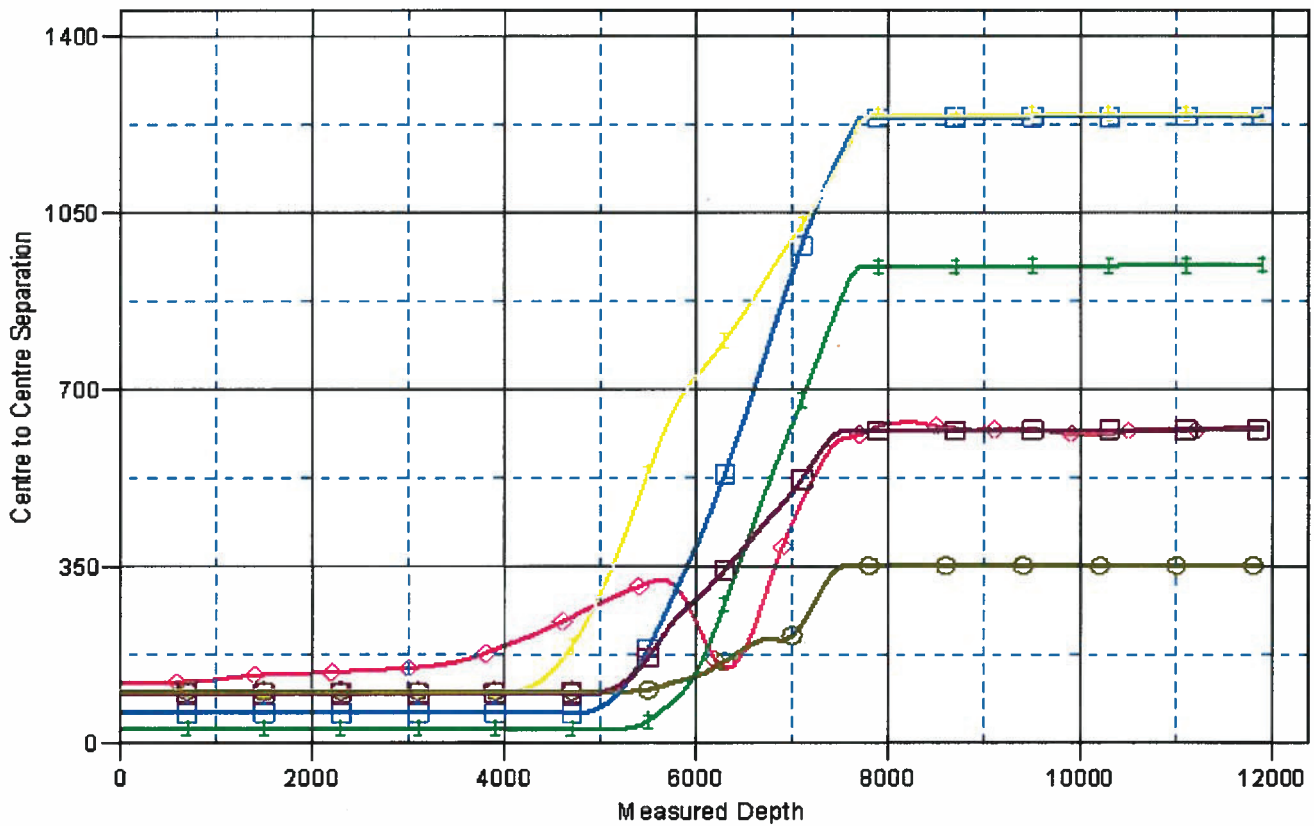
Offset Design Postle West Pad Sec.11-T3N-R68W - Postle LC 11-239HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		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	10,640.8	7,152.4	91.4	90.4	90.00	-1,487.7	2,854.8	1,246.4	1,065.8	180.67	6.899		
10,500.0	7,152.4	10,740.8	7,152.4	94.1	93.2	90.00	-1,487.5	2,954.8	1,246.6	1,060.4	186.16	6.696		
10,600.0	7,152.4	10,840.8	7,152.4	96.9	95.9	90.00	-1,487.3	3,054.8	1,246.8	1,055.1	191.67	6.505		
10,700.0	7,152.4	10,940.8	7,152.4	99.6	98.6	90.00	-1,487.0	3,154.8	1,246.9	1,049.7	197.18	6.324		
10,800.0	7,152.4	11,040.8	7,152.4	102.4	101.3	90.00	-1,486.8	3,254.8	1,247.1	1,044.4	202.69	6.153		
10,900.0	7,152.4	11,140.8	7,152.4	105.2	104.1	90.00	-1,486.5	3,354.8	1,247.2	1,039.0	208.21	5.990		
11,000.0	7,152.4	11,240.8	7,152.4	107.9	106.8	90.00	-1,486.3	3,454.8	1,247.4	1,033.7	213.74	5.836		
11,100.0	7,152.4	11,340.8	7,152.4	110.7	109.6	90.00	-1,486.0	3,554.8	1,247.6	1,028.3	219.27	5.690		
11,200.0	7,152.4	11,440.8	7,152.4	113.5	112.3	90.00	-1,485.8	3,654.8	1,247.7	1,022.9	224.80	5.550		
11,300.0	7,152.4	11,540.8	7,152.4	116.2	115.0	90.00	-1,485.6	3,754.8	1,247.9	1,017.5	230.34	5.418		
11,400.0	7,152.4	11,640.8	7,152.4	119.0	117.8	90.00	-1,485.3	3,854.8	1,248.0	1,012.1	235.88	5.291		
11,500.0	7,152.4	11,740.8	7,152.4	121.8	120.6	90.00	-1,485.1	3,954.8	1,248.2	1,006.8	241.43	5.170		
11,600.0	7,152.4	11,840.8	7,152.4	124.5	123.3	90.00	-1,484.8	4,054.8	1,248.3	1,001.4	246.97	5.055		
11,700.0	7,152.4	11,940.8	7,152.4	127.3	126.1	90.00	-1,484.6	4,154.8	1,248.5	996.0	252.52	4.944		
11,800.0	7,152.4	12,040.8	7,152.4	130.1	128.8	90.00	-1,484.3	4,254.8	1,248.7	990.6	258.07	4.838		
11,891.5	7,152.4	12,123.4	7,152.4	131.7	130.9	90.00	-1,484.1	4,337.4	1,248.8	987.1	261.75	4.771 SF		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-122HN
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 11-122HN	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 11-122HN
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.34°

Ladder Plot



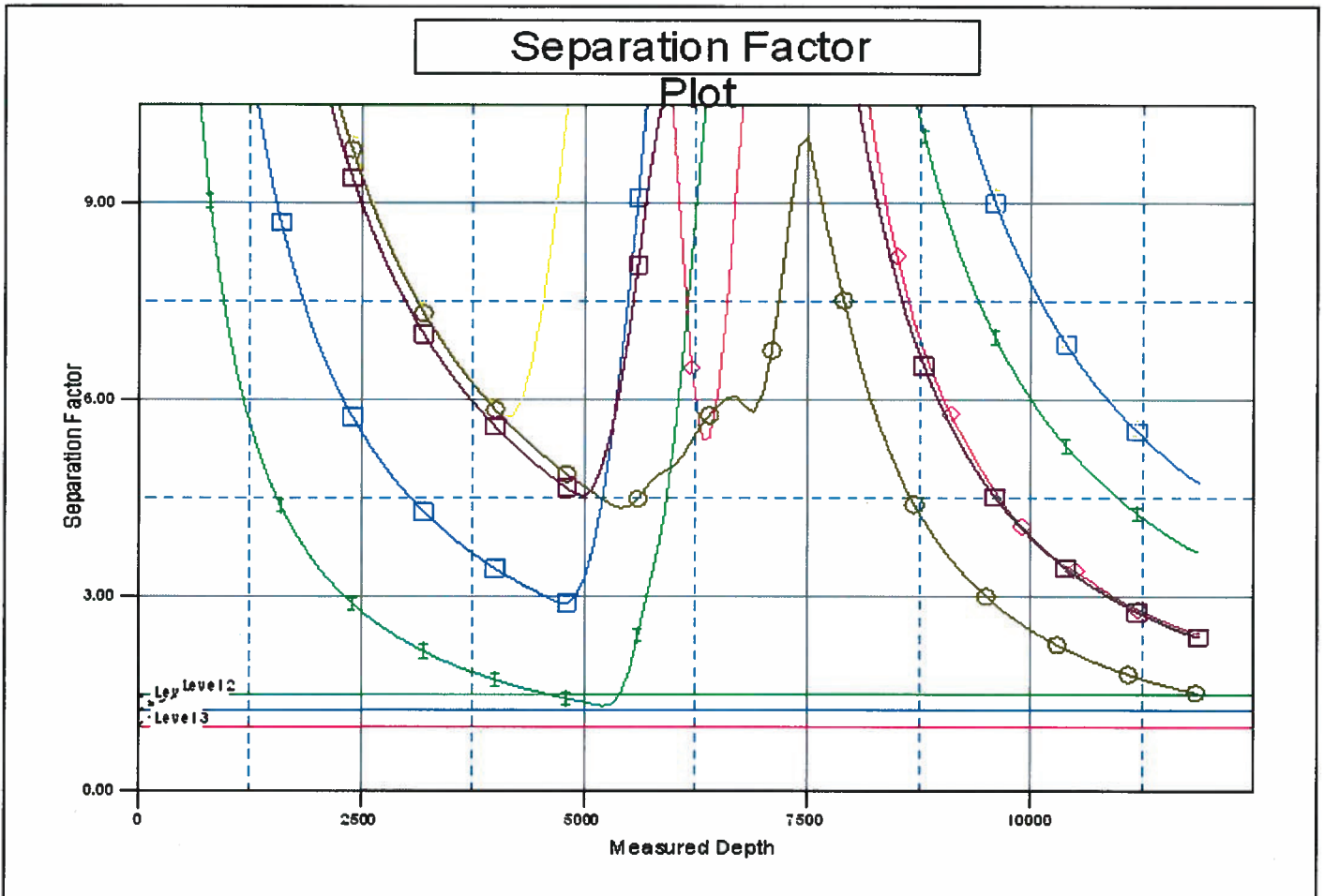
LEGEND

- 11-4HN, Wellbore #1, Wellbore #1 V0
- 11-039HN, Wellbore #1, Plan #1 (12-10-13) V0
- Postle LC 11-042HC, Wellbore #1, Plan #1 (12-10-13) V0
- Postle LC 11-239HN, Wellbore #1, Plan #1 (12-10-13) V0
- Postle LC 11-162HN, Wellbore #1, Plan #1 (12-10-13) V0
- Postle LC 11-159HC, Wellbore #1, Plan #1 (12-10-13) V0

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-122HN
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 11-122HN	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 11-122HN
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.34°



LEGEND

- 1-4HN, Wellbore #1, Wellbore #1 VD
- 11-039HN, Wellbore #1, Plan #1 (12-10-13) VS
- Postle LC 11-042HC, Wellbore #1, Plan #1 (12-10-13) VS
- Postle LC 11-239HN, Wellbore #1, Plan #1 (12-10-13) VS
- Postle LC 11-162HN, Wellbore #1, #1: VS
- Postle LC 11-159HC, Wellbore #1, #1: VS