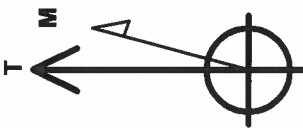


Well Name: **PostleIC 11-162HN**
Surface Location: Postle West Pad Sec.11-T3N-R68W
North American Datum 1983, US State Plane 1983, Colorado Northern Zone
+N/-S +E/-W Northing Easting Ground Elevation: 4976.9
0.0 0.0 1332050.48 3145700.55 40.243700 -104.978058 Slot
RKB - 16.5' WELL @ 4993.4ft (RKB - 16.5')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1556'FNL & 481'FWL	1.0	0.0	0.0	Point
BHL 2336'FNL & 470'FEL	7152.4	-758.5	4336.4	Point
Entry Pt. 2329'FNL & 460'FWL	7152.4	-773.0	-17.9	Point



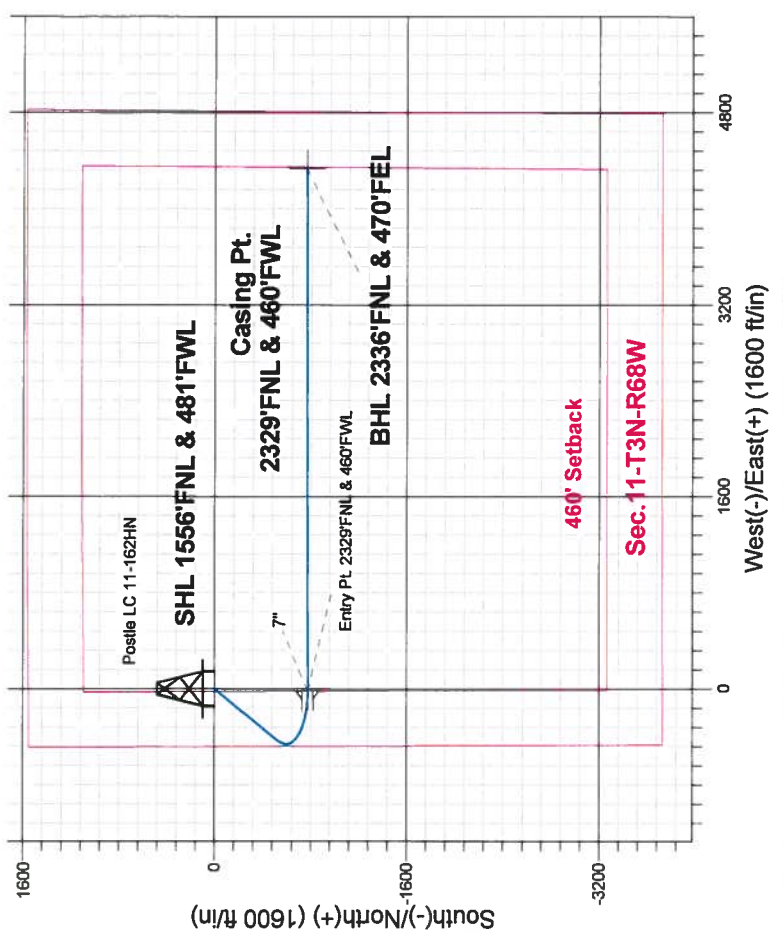
Azimuths to True North
Magnetic North: 8.63°

Magnetic Field
Strength: 52763.3snT
Dip Angle: 66.80°
Date: 12/10/2013
Model: IGRF2010

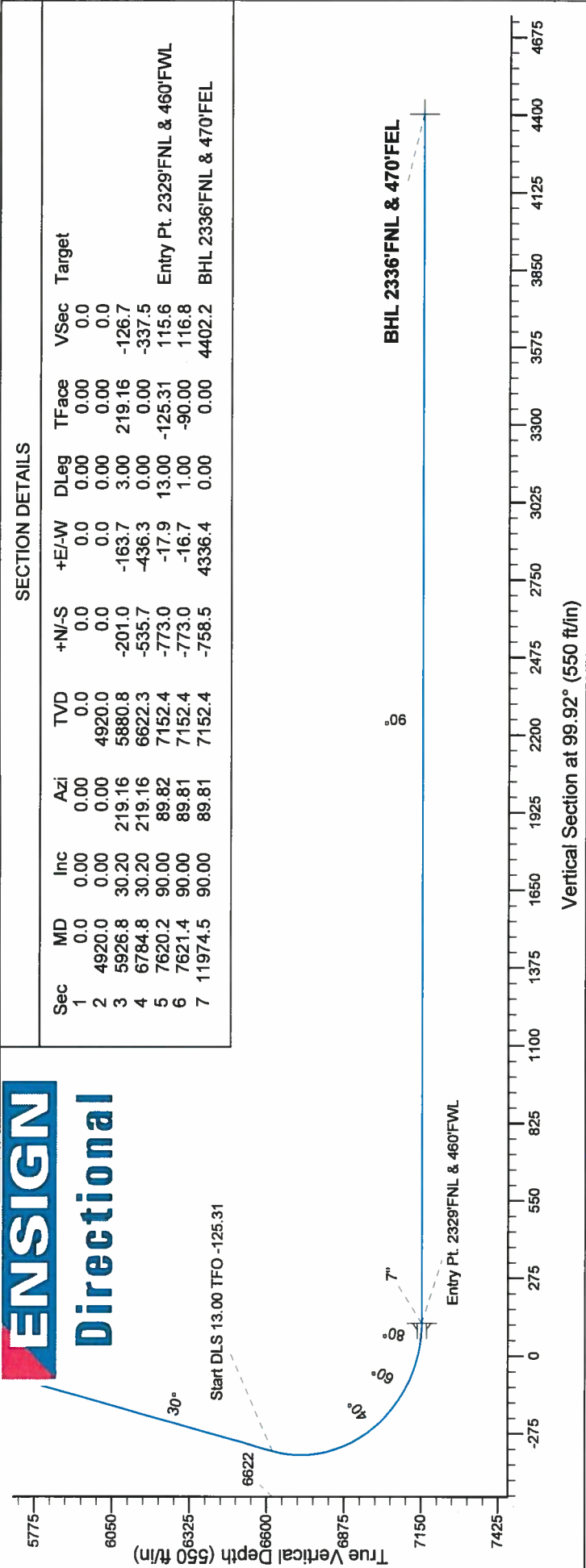
Postle West Pad Sec.11-T3N-R68W
PostleIC 11-162HN
Plan #1 (12-10-13)
11:02, December 12 2013

ANNOTATIONS

TVD	MD	Annotation
4920.0	4920.0	KOP - Start Build 3.00
6622.3	6784.8	Start DLS 13.00 TFO -125.31
7152.4	11974.5	TD at 11974.5



ENSIGN
Directional



SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	4920.0	0.00	0.00	4920.0	0.0	0.0	0.00	0.00	0.0
3	5926.8	30.20	219.16	5880.8	-201.0	-163.7	3.00	219.16	-126.7
4	6784.8	30.20	219.16	6622.3	-535.7	-436.3	0.00	0.00	-337.5
5	7620.2	90.00	89.82	7152.4	-773.0	-17.9	13.00	-125.31	115.6
6	7621.4	90.00	89.81	7152.4	-773.0	-16.7	1.00	-90.00	116.8
7	11974.5	90.00	89.81	7152.4	-758.5	4336.4	0.00	0.00	4402.2

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	4920.0	0.00	0.00	4920.0	0.0	0.0	0.00	0.00	0.0
3	5926.8	30.20	219.16	5880.8	-201.0	-163.7	3.00	219.16	-126.7
4	6784.8	30.20	219.16	6622.3	-535.7	-436.3	0.00	0.00	-337.5
5	7620.2	90.00	89.82	7152.4	-773.0	-17.9	13.00	-125.31	115.6
6	7621.4	90.00	89.81	7152.4	-773.0	-16.7	1.00	-90.00	116.8
7	11974.5	90.00	89.81	7152.4	-758.5	4336.4	0.00	0.00	4402.2



Great Western

SEC.11-T3N-R68W

Postle West Pad Sec.11-T3N-R68W

Postle LC 11-162HN

Wellbore #1

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

Standard Planning Report

12 December, 2013

Database:	Landmark	Local Co-ordinate Reference:	Well Postle LC 11-162HN
Company:	Great Western	TVD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Project:	SEC.11-T3N-R68W	MD Reference:	WELL @ 4993.4ft (RKB - 16.5')
Site:	Postle West Pad Sec.11-T3N-R68W	North Reference:	True
Well:	Postle LC 11-162HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-10-13)		

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

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

Well	Postle LC 11-162HN					
Well Position	+N-S	-94.0 ft	Northing:	1,332,050.48 ft	Latitude:	40.243700
	+E-W	124.2 ft	Easting:	3,145,700.55 ft	Longitude:	-104.978058
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,976.9 ft

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

Design	Plan #1 (12-10-13)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	99.92

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,920.0	0.00	0.00	4,920.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,926.8	30.20	219.16	5,880.8	-201.0	-163.7	3.00	3.00	0.00	219.16	
6,784.8	30.20	219.16	6,622.3	-535.7	-436.3	0.00	0.00	0.00	0.00	
7,620.2	90.00	89.82	7,152.4	-773.0	-17.9	13.00	7.16	-15.48	-125.31	Entry Pt. 2329'FNL
7,621.4	90.00	89.81	7,152.4	-773.0	-16.7	1.00	0.00	-1.00	-90.00	
11,974.5	90.00	89.81	7,152.4	-758.5	4,336.4	0.00	0.00	0.00	0.00	BHL 2336'FNL & 47

Database:	Landmark	Local Co-ordinate Reference:	Well PostleIC 11-162HN
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 11-162HN	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 1556'FNL & 481'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
4,920.0	0.00	0.00	4,920.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 3.00									

Database:	Landmark	Local Co-ordinate Reference:	Well PostleIC 11-162HN
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 11-162HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-10-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.0	2.40	219.16	5,000.0	-1.3	-1.1	-0.8	3.00	3.00	0.00
5,100.0	5.40	219.16	5,099.7	-6.6	-5.4	-4.1	3.00	3.00	0.00
5,200.0	8.40	219.16	5,199.0	-15.9	-12.9	-10.0	3.00	3.00	0.00
5,300.0	11.40	219.16	5,297.5	-29.2	-23.8	-18.4	3.00	3.00	0.00
5,400.0	14.40	219.16	5,395.0	-46.5	-37.9	-29.3	3.00	3.00	0.00
5,500.0	17.40	219.16	5,491.1	-67.8	-55.2	-42.7	3.00	3.00	0.00
5,600.0	20.40	219.16	5,585.7	-92.9	-75.6	-58.5	3.00	3.00	0.00
5,700.0	23.40	219.16	5,678.5	-121.8	-99.2	-76.7	3.00	3.00	0.00
5,800.0	26.40	219.16	5,769.2	-154.4	-125.8	-97.3	3.00	3.00	0.00
5,900.0	29.40	219.16	5,857.6	-190.7	-155.3	-120.1	3.00	3.00	0.00
5,926.8	30.20	219.16	5,880.8	-201.0	-163.7	-126.7	3.00	3.00	0.00
6,000.0	30.20	219.16	5,944.1	-229.6	-187.0	-144.6	0.00	0.00	0.00
6,100.0	30.20	219.16	6,030.5	-268.6	-218.8	-169.2	0.00	0.00	0.00
6,200.0	30.20	219.16	6,116.9	-307.6	-250.5	-193.8	0.00	0.00	0.00
6,300.0	30.20	219.16	6,203.3	-346.6	-282.3	-218.4	0.00	0.00	0.00
6,400.0	30.20	219.16	6,289.8	-385.6	-314.1	-242.9	0.00	0.00	0.00
6,500.0	30.20	219.16	6,376.2	-424.6	-345.9	-267.5	0.00	0.00	0.00
6,600.0	30.20	219.16	6,462.6	-463.6	-377.6	-292.1	0.00	0.00	0.00
6,700.0	30.20	219.16	6,549.0	-502.6	-409.4	-316.7	0.00	0.00	0.00
6,784.8	30.20	219.16	6,622.3	-535.7	-436.3	-337.5	0.00	0.00	0.00
Start DLS 13.00 TFO -125.31									
6,800.0	29.10	215.85	6,635.5	-541.7	-440.9	-341.0	12.99	-7.24	-21.80
6,900.0	24.49	188.59	6,725.1	-582.1	-458.3	-351.2	13.00	-4.61	-27.26
7,000.0	25.88	157.91	6,816.0	-623.0	-453.2	-339.1	13.00	1.39	-30.68
7,100.0	32.52	134.74	6,903.5	-662.3	-425.8	-305.3	13.00	6.64	-23.17
7,200.0	41.97	119.85	6,983.2	-698.0	-377.5	-251.6	13.00	9.45	-14.88
7,300.0	52.72	109.86	7,050.9	-728.3	-310.8	-180.6	13.00	10.75	-9.99
7,400.0	64.10	102.45	7,103.3	-751.6	-229.1	-96.2	13.00	11.38	-7.41
7,500.0	75.78	96.37	7,137.6	-766.7	-136.6	-2.4	13.00	11.69	-6.08
7,600.0	87.61	90.90	7,152.0	-772.9	-38.0	95.7	13.00	11.82	-5.47
7,620.2	90.00	89.82	7,152.4	-773.0	-17.9	115.6	12.99	11.84	-5.33
7" - Entry Pt. 2329'FNL & 460'FWL									
7,621.4	90.00	89.81	7,152.4	-773.0	-16.7	116.8	1.10	0.18	-1.08
7,700.0	90.00	89.81	7,152.4	-772.8	62.0	194.2	0.00	0.00	0.00
7,800.0	90.00	89.81	7,152.4	-772.4	161.9	292.6	0.00	0.00	0.00
7,900.0	90.00	89.81	7,152.4	-772.1	261.9	391.1	0.00	0.00	0.00
8,000.0	90.00	89.81	7,152.4	-771.8	361.9	489.5	0.00	0.00	0.00
8,100.0	90.00	89.81	7,152.4	-771.4	461.9	587.9	0.00	0.00	0.00
8,200.0	90.00	89.81	7,152.4	-771.1	561.9	686.4	0.00	0.00	0.00
8,300.0	90.00	89.81	7,152.4	-770.8	661.9	784.8	0.00	0.00	0.00
8,400.0	90.00	89.81	7,152.4	-770.4	761.9	883.3	0.00	0.00	0.00
8,500.0	90.00	89.81	7,152.4	-770.1	861.9	981.7	0.00	0.00	0.00
8,600.0	90.00	89.81	7,152.4	-769.8	961.9	1,080.2	0.00	0.00	0.00
8,700.0	90.00	89.81	7,152.4	-769.4	1,061.9	1,178.6	0.00	0.00	0.00
8,800.0	90.00	89.81	7,152.4	-769.1	1,161.9	1,277.1	0.00	0.00	0.00
8,900.0	90.00	89.81	7,152.4	-768.8	1,261.9	1,375.5	0.00	0.00	0.00
9,000.0	90.00	89.81	7,152.4	-768.4	1,361.9	1,474.0	0.00	0.00	0.00
9,100.0	90.00	89.81	7,152.4	-768.1	1,461.9	1,572.4	0.00	0.00	0.00
9,200.0	90.00	89.81	7,152.4	-767.7	1,561.9	1,670.9	0.00	0.00	0.00
9,300.0	90.00	89.81	7,152.4	-767.4	1,661.9	1,769.3	0.00	0.00	0.00
9,400.0	90.00	89.81	7,152.4	-767.1	1,761.9	1,867.8	0.00	0.00	0.00
9,500.0	90.00	89.81	7,152.4	-766.7	1,861.9	1,966.2	0.00	0.00	0.00
9,600.0	90.00	89.81	7,152.4	-766.4	1,961.9	2,064.6	0.00	0.00	0.00
9,700.0	90.00	89.81	7,152.4	-766.1	2,061.9	2,163.1	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Postle IC 11-162HN
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 11-162HN	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	89.81	7,152.4	-765.7	2,161.9	2,261.5	0.00	0.00	0.00
9,900.0	90.00	89.81	7,152.4	-765.4	2,261.9	2,360.0	0.00	0.00	0.00
10,000.0	90.00	89.81	7,152.4	-765.1	2,361.9	2,458.4	0.00	0.00	0.00
10,100.0	90.00	89.81	7,152.4	-764.7	2,461.9	2,556.9	0.00	0.00	0.00
10,200.0	90.00	89.81	7,152.4	-764.4	2,561.9	2,655.3	0.00	0.00	0.00
10,300.0	90.00	89.81	7,152.4	-764.1	2,661.9	2,753.8	0.00	0.00	0.00
10,400.0	90.00	89.81	7,152.4	-763.7	2,761.9	2,852.2	0.00	0.00	0.00
10,500.0	90.00	89.81	7,152.4	-763.4	2,861.9	2,950.7	0.00	0.00	0.00
10,600.0	90.00	89.81	7,152.4	-763.1	2,961.9	3,049.1	0.00	0.00	0.00
10,700.0	90.00	89.81	7,152.4	-762.7	3,061.9	3,147.6	0.00	0.00	0.00
10,800.0	90.00	89.81	7,152.4	-762.4	3,161.9	3,246.0	0.00	0.00	0.00
10,900.0	90.00	89.81	7,152.4	-762.1	3,261.9	3,344.4	0.00	0.00	0.00
11,000.0	90.00	89.81	7,152.4	-761.7	3,361.9	3,442.9	0.00	0.00	0.00
11,100.0	90.00	89.81	7,152.4	-761.4	3,461.9	3,541.3	0.00	0.00	0.00
11,200.0	90.00	89.81	7,152.4	-761.0	3,561.9	3,639.8	0.00	0.00	0.00
11,300.0	90.00	89.81	7,152.4	-760.7	3,661.9	3,738.2	0.00	0.00	0.00
11,400.0	90.00	89.81	7,152.4	-760.4	3,761.9	3,836.7	0.00	0.00	0.00
11,500.0	90.00	89.81	7,152.4	-760.0	3,861.9	3,935.1	0.00	0.00	0.00
11,600.0	90.00	89.81	7,152.4	-759.7	3,961.9	4,033.6	0.00	0.00	0.00
11,700.0	90.00	89.81	7,152.4	-759.4	4,061.9	4,132.0	0.00	0.00	0.00
11,800.0	90.00	89.81	7,152.4	-759.0	4,161.9	4,230.5	0.00	0.00	0.00
11,900.0	90.00	89.81	7,152.4	-758.7	4,261.9	4,328.9	0.00	0.00	0.00
11,974.5	90.00	89.81	7,152.4	-758.5	4,336.4	4,402.2	0.00	0.00	0.00

BHL 2336'FNL & 470'FEL

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,620.2	7,152.4	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
4,920.0	4,920.0	0.0	0.0	KOP - Start Build 3.00
6,784.8	6,622.3	-535.7	-436.3	Start DLS 13.00 TFO -125.31
11,974.5	7,152.4	-758.5	4,336.4	TD at 11974.5



Directional

Great Western

SEC.11-T3N-R68W

Postle West Pad Sec.11-T3N-R68W

Postle IC 11-162HN

Wellbore #1

Plan #1 (12-10-13)

Anticollision Report

12 December, 2013

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-162HN
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 11-162HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date 12/11/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,973.7	Plan #1 (12-10-13) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Postle West Pad Sec.11-T3N-R68W						
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	542.3	544.9	154.8	152.8	76.038	CC
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	700.0	702.0	155.3	152.5	57.132	ES
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	11,974.5	11,707.9	1,250.3	992.2	4.844	SF
Postle LC 11-122HN - Wellbore #1 - Plan #1 (12-10-13)	4,900.0	4,900.0	99.2	77.4	4.548	CC, ES
Postle LC 11-122HN - Wellbore #1 - Plan #1 (12-10-13)	11,974.5	11,886.1	622.2	360.3	2.375	SF
Postle LC 11-159HC - Wellbore #1 - Plan #1 (12-10-13)	4,900.0	4,900.0	30.2	8.4	1.384	Level 3, CC, ES, SF
Postle LC 11-239HN - Wellbore #1 - Plan #1 (12-10-13)	4,100.0	4,100.0	29.7	11.5	1.630	CC, ES, SF
Postle LC 11-259HC - Wellbore #1 - Plan #1 (12-10-13)	3,800.0	3,800.0	59.8	43.0	3.548	CC, ES
Postle LC 11-259HC - Wellbore #1 - Plan #1 (12-10-13)	3,900.0	3,899.0	60.7	43.4	3.511	SF
Postle LC 11-279HN - Wellbore #1 - Plan #1 (12-10-13)	3,100.0	3,100.0	89.4	75.7	6.522	CC, ES
Postle LC 11-279HN - Wellbore #1 - Plan #1 (12-10-13)	11,974.5	12,273.0	1,247.7	987.7	4.798	SF

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-4HN - Wellbore #1 - Wellbore #1												
Survey Program: 229-MWD												
Reference		Offset		Semi Major Axis			Distance					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
0.0	0.0	2.6	2.6	0.0	0.0	-52.89	94.0	-124.2	155.8	155.8	0.00	N/A
100.0	100.0	102.7	102.7	0.1	0.1	-52.92	93.9	-124.3	155.8	155.5	0.23	682.999
200.0	200.0	202.7	202.7	0.3	0.2	-53.00	93.7	-124.3	155.7	155.1	0.57	275.377
300.0	300.0	302.9	302.9	0.6	0.4	-53.11	93.4	-124.4	155.5	154.6	0.97	159.540
400.0	400.0	403.2	403.2	0.8	0.6	-53.21	93.0	-124.3	155.2	153.8	1.41	109.898
500.0	500.0	502.9	502.9	1.0	0.8	-53.42	92.3	-124.4	154.9	153.0	1.85	83.671
542.3	542.3	544.9	544.9	1.1	0.9	-53.55	92.0	-124.5	154.8	152.8	2.04	76.038 CC
600.0	600.0	602.2	602.2	1.2	1.1	-53.76	91.6	-124.9	154.9	152.6	2.29	67.683
700.0	700.0	702.0	702.0	1.5	1.3	-54.18	90.9	-125.9	155.3	152.5	2.72	57.132 ES
800.0	800.0	801.8	801.8	1.7	1.5	-54.55	90.3	-126.8	155.7	152.6	3.14	49.516
900.0	900.0	901.2	901.2	1.9	1.7	-54.92	89.9	-128.0	156.4	152.8	3.58	43.744
1,000.0	1,000.0	1,000.5	1,000.5	2.1	1.9	-55.48	89.3	-129.8	157.5	153.5	4.01	39.241
1,100.0	1,100.0	1,099.4	1,099.4	2.4	2.1	-56.13	88.7	-132.2	159.2	154.8	4.45	35.755
1,200.0	1,200.0	1,199.2	1,199.1	2.6	2.3	-56.64	88.7	-134.8	161.4	156.6	4.88	33.055
1,300.0	1,300.0	1,299.7	1,299.5	2.8	2.5	-56.97	89.1	-137.0	163.5	158.2	5.31	30.786
1,400.0	1,400.0	1,399.7	1,399.6	3.0	2.7	-57.20	89.5	-138.9	165.3	159.5	5.74	28.810

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 11-162HN
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 11-162HN	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 Toolface (°)	Distance		Minimum Separation (ft)	Separation Factor	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)	
1,500.0	1,500.0	1,500.0	1,499.8	3.3	2.9	-57.22	90.4	-140.4	167.1	160.9	6.17	27.085		
1,600.0	1,600.0	1,600.6	1,600.4	3.5	3.1	-56.92	92.0	-141.2	168.6	162.0	6.60	25.534		
1,700.0	1,700.0	1,701.5	1,701.3	3.7	3.3	-56.77	93.0	-141.9	169.6	162.6	7.04	24.104		
1,800.0	1,800.0	1,800.5	1,800.3	3.9	3.5	-56.71	93.6	-142.6	170.6	163.1	7.47	22.838		
1,900.0	1,900.0	1,900.4	1,900.2	4.2	3.8	-56.68	94.5	-143.7	172.0	164.1	7.91	21.752		
2,000.0	2,000.0	2,001.7	2,001.5	4.4	4.0	-56.65	95.1	-144.5	173.0	164.6	8.34	20.734		
2,100.0	2,100.0	2,101.0	2,100.8	4.6	4.2	-56.47	96.0	-144.9	173.8	165.0	8.77	19.810		
2,200.0	2,200.0	2,200.5	2,200.3	4.8	4.4	-56.32	97.1	-145.6	175.0	165.8	9.21	19.006		
2,300.0	2,300.0	2,300.9	2,300.7	5.1	4.6	-56.28	97.8	-146.5	176.2	166.5	9.65	18.266		
2,400.0	2,400.0	2,400.7	2,400.4	5.3	4.8	-56.63	97.6	-148.1	177.4	167.3	10.08	17.597		
2,500.0	2,500.0	2,501.6	2,501.4	5.5	5.0	-57.08	96.9	-149.7	178.4	167.8	10.52	16.958		
2,600.0	2,600.0	2,602.4	2,602.1	5.7	5.2	-57.37	96.4	-150.6	178.8	167.9	10.95	16.329		
2,700.0	2,700.0	2,702.8	2,702.5	6.0	5.4	-57.61	95.9	-151.1	179.0	167.6	11.38	15.720		
2,800.0	2,800.0	2,802.8	2,802.5	6.2	5.7	-57.88	95.2	-151.6	179.0	167.2	11.82	15.142		
2,900.0	2,900.0	2,902.5	2,902.3	6.4	5.9	-58.22	94.3	-152.2	179.1	166.8	12.26	14.611		
3,000.0	3,000.0	3,001.5	3,001.3	6.6	6.1	-58.65	93.4	-153.3	179.5	166.8	12.69	14.142		
3,100.0	3,100.0	3,100.6	3,100.2	6.9	6.3	-59.07	92.8	-154.9	180.6	167.4	13.12	13.758		
3,200.0	3,200.0	3,200.4	3,200.1	7.1	6.5	-59.52	92.3	-156.8	181.9	168.4	13.56	13.419		
3,300.0	3,300.0	3,299.1	3,298.7	7.3	6.7	-60.13	91.4	-159.1	183.6	169.6	13.99	13.117		
3,400.0	3,400.0	3,398.2	3,397.8	7.5	6.9	-60.76	90.8	-162.3	186.0	171.6	14.43	12.891		
3,500.0	3,500.0	3,495.2	3,494.8	7.8	7.1	-61.43	90.4	-166.0	189.2	174.3	14.86	12.730		
3,600.0	3,600.0	3,593.9	3,593.2	8.0	7.4	-62.08	90.7	-171.1	193.9	178.6	15.30	12.675		
3,700.0	3,700.0	3,593.0	3,692.2	8.2	7.6	-62.67	91.2	-176.4	198.9	183.1	15.73	12.643		
3,800.0	3,800.0	3,790.8	3,789.8	8.4	7.8	-63.32	91.7	-182.4	204.6	188.4	16.17	12.654		
3,900.0	3,900.0	3,888.6	3,887.4	8.7	8.0	-64.06	92.2	-189.5	211.3	194.7	16.60	12.725		
4,000.0	4,000.0	3,988.1	3,986.5	8.9	8.2	-64.81	92.8	-197.3	218.6	201.6	17.04	12.827		
4,100.0	4,100.0	4,090.1	4,088.3	9.1	8.5	-65.53	93.2	-204.8	225.5	208.0	17.48	12.900		
4,200.0	4,200.0	4,189.0	4,187.0	9.3	8.7	-66.23	93.2	-211.7	231.9	213.9	17.92	12.942		
4,300.0	4,300.0	4,287.6	4,285.2	9.6	8.9	-67.02	93.0	-219.2	238.7	220.4	18.36	13.005		
4,400.0	4,400.0	4,386.0	4,383.4	9.8	9.2	-67.83	92.7	-227.4	246.3	227.5	18.80	13.101		
4,500.0	4,500.0	4,485.5	4,482.4	10.0	9.4	-68.61	92.4	-235.9	254.1	234.9	19.24	13.206		
4,600.0	4,600.0	4,582.9	4,579.5	10.2	9.6	-69.36	92.2	-244.7	262.5	242.8	19.68	13.338		
4,700.0	4,700.0	4,681.7	4,677.8	10.5	9.9	-70.03	92.4	-254.1	271.5	251.4	20.12	13.492		
4,800.0	4,800.0	4,781.3	4,777.0	10.7	10.1	-70.62	92.7	-263.6	280.6	260.1	20.56	13.648		
4,900.0	4,900.0	4,881.3	4,876.6	10.9	10.4	-71.17	93.1	-273.1	289.7	268.7	21.00	13.794		
5,000.0	5,000.0	4,981.7	4,976.5	11.1	10.6	-69.30	93.6	-282.4	298.0	276.6	21.42	13.914		
5,100.0	5,099.7	5,082.6	5,077.0	11.3	10.8	-69.89	94.1	-291.3	304.2	282.4	21.80	13.951		
5,200.0	5,199.0	5,182.8	5,176.8	11.5	11.1	-71.46	94.7	-299.8	308.4	286.2	22.19	13.900		
5,300.0	5,297.5	5,283.3	5,277.0	11.7	11.3	-73.98	95.3	-308.0	311.1	288.5	22.59	13.771		
5,400.0	5,395.0	5,383.1	5,376.5	11.9	11.5	-77.43	95.9	-315.5	312.7	289.7	23.03	13.580		
5,500.0	5,491.1	5,483.0	5,476.2	12.1	11.8	-81.84	96.6	-322.3	314.1	290.6	23.51	13.363		
5,600.0	5,585.7	5,579.8	5,572.8	12.4	12.0	-86.95	96.9	-328.0	316.1	292.1	24.03	13.155		
5,700.0	5,678.5	5,673.0	5,665.9	12.7	12.2	-92.53	97.4	-333.5	321.2	296.6	24.59	13.061		
5,800.0	5,769.2	5,764.9	5,757.6	13.0	12.4	-98.53	98.2	-338.7	330.7	305.5	25.17	13.139		
5,900.0	5,857.6	5,854.6	5,847.2	13.5	12.6	-104.78	99.7	-342.7	345.9	320.2	25.71	13.451		
6,000.0	5,944.1	5,939.3	5,931.8	14.0	12.8	-111.12	101.8	-345.2	367.5	341.3	26.22	14.017		
6,100.0	6,030.5	6,017.3	6,009.7	14.6	13.0	-116.79	105.5	-346.4	396.0	369.3	26.69	14.837		
6,200.0	6,116.9	6,099.0	6,091.3	15.2	13.1	-122.05	110.3	-348.1	430.1	402.9	27.13	15.852		
6,300.0	6,203.3	6,149.0	6,141.0	15.9	13.2	-124.92	115.1	-349.6	471.0	443.4	27.61	17.058		
6,400.0	6,289.8	6,210.9	6,202.1	16.6	13.4	-128.02	124.7	-352.8	519.7	491.6	28.09	18.502		
6,500.0	6,376.2	6,278.5	6,268.6	17.4	13.6	-130.98	136.3	-356.3	571.7	543.2	28.55	20.026		
6,600.0	6,462.6	6,327.2	6,316.0	18.1	13.7	-132.80	146.7	-359.4	628.6	599.5	29.06	21.631		

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 11-162HN
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 11-162HN	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 Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
6,700.0	6,549.0	6,372.6	6,359.8	18.9	13.8	134.29	158.6	-362.7	690.1	660.5	29.58	23.325		
6,800.0	6,635.5	6,413.1	6,398.3	19.7	13.9	140.23	170.8	-364.6	755.6	725.7	29.86	25.305		
6,900.0	6,725.1	6,451.0	6,433.9	20.3	14.0	177.81	183.7	-365.1	825.4	796.5	28.97	28.493		
7,000.0	6,816.0	6,491.0	6,471.0	20.7	14.1	-142.17	198.7	-364.8	896.5	867.5	29.05	30.863		
7,100.0	6,903.5	6,579.7	6,553.0	21.0	14.3	-114.06	232.5	-362.9	964.0	934.1	29.81	32.332		
7,200.0	6,983.2	6,639.4	6,608.6	21.1	14.5	-96.23	254.2	-363.1	1,024.2	993.8	30.40	33.695		
7,300.0	7,050.9	6,674.0	6,640.6	21.1	14.6	-84.19	267.3	-364.0	1,079.1	1,048.5	30.60	35.266		
7,400.0	7,103.3	6,703.1	6,667.4	21.1	14.7	-76.22	278.6	-364.9	1,127.9	1,097.3	30.62	36.838		
7,500.0	7,137.6	6,754.2	6,714.6	20.9	14.9	-72.41	298.1	-366.1	1,169.4	1,138.4	31.03	37.683		
7,600.0	7,152.0	6,783.6	6,742.0	20.7	15.0	-69.72	308.8	-366.2	1,203.3	1,171.6	31.65	38.022		
7,700.0	7,152.4	7,399.1	7,139.4	20.5	17.1	-89.27	451.8	8.6	1,225.9	1,189.0	36.86	33.260		
7,800.0	7,152.4	7,468.1	7,141.7	22.1	17.9	-89.38	456.0	77.4	1,231.5	1,192.2	39.21	31.407		
7,900.0	7,152.4	7,561.9	7,140.0	23.9	19.3	-89.31	462.8	170.9	1,238.3	1,196.0	42.34	29.249		
8,000.0	7,152.4	7,635.8	7,136.4	25.9	20.6	-89.14	469.3	244.4	1,246.8	1,201.3	45.52	27.387		
8,100.0	7,152.4	7,808.1	7,131.3	28.1	23.9	-88.92	481.6	416.1	1,254.1	1,203.0	51.00	24.588		
8,200.0	7,152.4	7,922.1	7,128.0	30.3	26.4	-88.77	483.8	530.1	1,255.6	1,199.9	55.71	22.538		
8,300.0	7,152.4	8,068.6	7,126.9	32.6	29.8	-88.72	485.7	676.6	1,256.9	1,195.4	61.43	20.460		
8,400.0	7,152.4	8,180.9	7,127.4	35.0	32.5	-88.74	484.3	788.8	1,255.3	1,188.8	66.54	18.866		
8,500.0	7,152.4	8,297.0	7,129.2	37.4	35.3	-88.82	480.0	904.8	1,251.1	1,179.2	71.88	17.405		
8,600.0	7,152.4	8,369.5	7,128.6	39.9	37.1	-88.79	478.1	977.3	1,248.3	1,172.1	76.20	16.381		
8,700.0	7,152.4	8,479.9	7,127.8	42.4	39.9	-88.75	477.0	1,087.7	1,247.0	1,165.4	81.56	15.289		
8,800.0	7,152.4	8,587.9	7,127.9	45.0	42.7	-88.75	474.2	1,195.7	1,244.0	1,157.1	86.93	14.310		
8,900.0	7,152.4	8,666.3	7,127.0	47.5	44.8	-88.71	472.5	1,274.0	1,241.7	1,150.1	91.57	13.559		
8,950.0	7,152.4	8,705.1	7,126.1	49.0	45.8	-88.67	472.4	1,312.8	1,241.3	1,147.3	94.03	13.201		
9,000.0	7,152.4	8,740.3	7,125.2	50.1	46.7	-88.62	472.7	1,348.0	1,241.5	1,145.4	96.13	12.915		
9,100.0	7,152.4	8,857.0	7,123.2	52.8	49.8	-88.53	473.4	1,464.7	1,241.9	1,140.0	101.85	12.193		
9,174.4	7,152.4	8,924.5	7,122.5	54.7	51.6	-88.50	473.2	1,532.2	1,241.5	1,135.8	105.63	11.753		
9,200.0	7,152.4	8,939.5	7,122.5	55.4	52.0	-88.50	473.3	1,547.1	1,241.6	1,134.9	106.70	11.636		
9,300.0	7,152.4	9,030.8	7,123.2	58.0	54.4	-88.53	475.1	1,638.5	1,243.1	1,131.3	111.81	11.118		
9,400.0	7,152.4	9,137.4	7,123.2	60.7	57.3	-88.54	476.8	1,745.0	1,244.4	1,127.1	117.36	10.604		
9,500.0	7,152.4	9,267.4	7,124.3	63.4	60.8	-88.59	477.4	1,875.1	1,244.6	1,121.0	123.57	10.072		
9,600.0	7,152.4	9,370.9	7,124.1	66.1	63.6	-88.58	475.7	1,978.5	1,242.6	1,113.6	129.08	9.627		
9,700.0	7,152.4	9,492.6	7,123.9	68.8	66.9	-88.56	473.4	2,100.2	1,240.5	1,105.4	135.10	9.182		
9,800.0	7,152.4	9,589.0	7,122.3	71.5	69.5	-88.49	470.6	2,196.6	1,237.3	1,096.8	140.44	8.810		
9,900.0	7,152.4	9,675.0	7,119.7	74.2	71.9	-88.36	468.7	2,282.5	1,234.8	1,089.2	145.51	8.486		
10,000.0	7,152.4	9,752.5	7,119.4	76.9	74.0	-88.34	467.7	2,360.0	1,233.3	1,083.0	150.36	8.203		
10,006.5	7,152.4	9,756.9	7,119.4	77.1	74.1	-88.34	467.8	2,364.3	1,233.3	1,082.7	150.65	8.187		
10,100.0	7,152.4	9,852.0	7,118.6	79.6	76.7	-88.31	468.3	2,459.5	1,233.6	1,077.8	155.81	7.917		
10,200.0	7,152.4	9,950.6	7,117.4	82.4	79.4	-88.25	468.1	2,558.0	1,233.0	1,071.8	161.25	7.647		
10,200.8	7,152.4	9,951.2	7,117.4	82.4	79.4	-88.25	468.1	2,558.6	1,233.0	1,071.8	161.29	7.645		
10,300.0	7,152.4	10,048.4	7,118.4	85.1	82.1	-88.30	468.7	2,655.8	1,233.4	1,066.7	166.69	7.399		
10,400.0	7,152.4	10,136.1	7,119.4	87.8	84.5	-88.35	469.5	2,743.5	1,233.9	1,062.0	171.85	7.180		
10,500.0	7,152.4	10,204.2	7,119.2	90.6	86.4	-88.34	471.3	2,811.6	1,236.3	1,059.8	176.47	7.006		
10,600.0	7,152.4	10,302.1	7,118.8	93.3	89.1	-88.33	476.0	2,909.4	1,240.7	1,058.8	181.90	6.821		
10,700.0	7,152.4	10,414.5	7,119.0	96.1	92.2	-88.34	479.5	3,021.8	1,243.4	1,055.6	187.75	6.622		
10,800.0	7,152.4	10,541.8	7,117.8	98.8	95.7	-88.29	482.7	3,149.0	1,245.7	1,051.7	194.02	6.420		
10,900.0	7,152.4	10,661.0	7,117.9	101.6	99.0	-88.29	482.3	3,268.2	1,244.9	1,044.9	200.08	6.222		
11,000.0	7,152.4	10,767.0	7,117.9	104.3	101.9	-88.29	481.3	3,374.2	1,243.6	1,037.9	205.78	6.044		
11,100.0	7,152.4	10,868.9	7,118.4	107.1	104.7	-88.31	480.6	3,476.0	1,242.6	1,031.2	211.37	5.879		
11,200.0	7,152.4	10,955.6	7,119.6	109.9	107.1	-88.37	480.2	3,562.7	1,241.7	1,025.2	216.54	5.734		
11,228.4	7,152.4	10,979.0	7,119.9	110.6	107.8	-88.38	480.2	3,586.2	1,241.7	1,023.7	217.98	5.696		
11,300.0	7,152.4	11,037.3	7,120.6	112.6	109.4	-88.41	480.8	3,644.4	1,242.1	1,020.5	221.58	5.605		

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 11-162HN
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 11-162HN	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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
11,400.0	7,152.4	11,137.1	7,120.1	115.4	112.2	-88.39	482.4	3,744.2	1,243.4	1,016.3	227.11	5.475		
11,500.0	7,152.4	11,223.7	7,117.9	118.1	114.6	-88.29	484.1	3,830.8	1,245.1	1,012.8	232.27	5.360		
11,600.0	7,152.4	11,346.2	7,115.3	120.9	118.0	-88.17	486.2	3,953.2	1,246.6	1,008.1	238.43	5.228		
11,700.0	7,152.4	11,439.0	7,113.2	123.7	120.5	-88.08	487.3	4,046.0	1,247.4	1,003.7	243.76	5.117		
11,800.0	7,152.4	11,530.0	7,113.1	126.5	123.1	-88.07	488.7	4,137.0	1,248.7	999.6	249.06	5.013		
11,900.0	7,152.4	11,641.2	7,115.1	129.2	126.2	-88.17	490.0	4,248.2	1,249.4	994.5	254.94	4.901		
11,974.5	7,152.4	11,707.9	7,115.1	130.6	128.0	-88.17	491.0	4,314.8	1,250.3	992.2	258.11	4.844 SF		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-162HN
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 11-162HN	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 11-122HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-2.26	99.1	-3.9	99.2					
100.0	100.0	100.0	100.0	0.1	0.1	-2.26	99.1	-3.9	99.2	98.9	0.22	441.202		
200.0	200.0	200.0	200.0	0.3	0.3	-2.26	99.1	-3.9	99.2	98.5	0.67	147.067		
300.0	300.0	300.0	300.0	0.6	0.6	-2.26	99.1	-3.9	99.2	98.0	1.12	88.240		
400.0	400.0	400.0	400.0	0.8	0.8	-2.26	99.1	-3.9	99.2	97.6	1.57	63.029		
500.0	500.0	500.0	500.0	1.0	1.0	-2.26	99.1	-3.9	99.2	97.1	2.02	49.022		
600.0	600.0	600.0	600.0	1.2	1.2	-2.26	99.1	-3.9	99.2	96.7	2.47	40.109		
700.0	700.0	700.0	700.0	1.5	1.5	-2.26	99.1	-3.9	99.2	96.2	2.92	33.939		
800.0	800.0	800.0	800.0	1.7	1.7	-2.26	99.1	-3.9	99.2	95.8	3.37	29.413		
900.0	900.0	900.0	900.0	1.9	1.9	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	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	-2.26	99.1	-3.9	99.2	77.4	21.80	4.548 CC, ES		
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	139.19	99.1	-3.9	100.4	78.2	22.22	4.519		
5,100.0	5,099.7	5,099.7	5,099.7	11.3	11.4	141.50	99.1	-3.9	105.7	83.1	22.58	4.680		

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 11-162HN
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 11-162HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle LC 11-122HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance							
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	5,199.0	5,199.0	5,199.0	11.5	11.6	145.04	99.1	-3.9	115.3	92.4	22.90	5.037		
5,300.0	5,297.5	5,297.5	5,297.5	11.7	11.8	149.15	99.1	-3.9	129.8	106.7	23.16	5.606		
5,400.0	5,395.0	5,395.0	5,395.0	11.9	12.0	153.25	99.1	-3.9	149.5	126.2	23.36	6.400		
5,500.0	5,491.1	5,491.1	5,491.1	12.1	12.2	156.97	99.1	-3.9	174.6	151.1	23.50	7.427		
5,600.0	5,585.7	5,585.7	5,585.7	12.4	12.4	160.17	99.1	-3.9	204.9	181.4	23.58	8.691		
5,700.0	5,678.5	5,700.5	5,700.1	12.7	12.7	162.16	96.9	-10.6	236.9	213.3	23.63	10.027		
5,800.0	5,769.2	5,825.2	5,821.5	13.0	12.9	160.75	88.0	-37.2	263.3	239.6	23.74	11.094		
5,900.0	5,857.6	5,952.2	5,938.2	13.5	13.3	156.56	72.2	-84.4	284.0	260.0	24.02	11.824		
6,000.0	5,944.1	6,056.0	6,027.7	14.0	13.7	152.02	55.6	-134.2	301.9	277.1	24.77	12.185		
6,100.0	6,030.5	6,152.0	6,110.2	14.6	14.1	148.27	40.0	-180.8	321.0	295.3	25.73	12.477		
6,200.0	6,116.9	6,248.0	6,192.6	15.2	14.6	144.93	24.5	-227.4	341.4	314.6	26.81	12.736		
6,300.0	6,203.3	6,344.0	6,275.1	15.9	15.1	141.97	8.9	-274.0	362.8	334.8	27.99	12.961		
6,400.0	6,289.8	6,440.0	6,357.6	16.6	15.8	139.33	-6.6	-320.7	385.1	355.8	29.28	13.150		
6,500.0	6,376.2	6,536.0	6,440.0	17.4	16.4	136.97	-22.2	-367.3	408.0	377.4	30.66	13.308		
6,600.0	6,462.6	6,633.6	6,524.0	18.1	17.1	134.88	-38.0	-414.3	431.6	399.5	32.10	13.446		
6,700.0	6,549.0	6,741.0	6,623.1	18.9	17.6	135.01	-56.7	-450.5	454.0	420.8	33.13	13.701		
6,800.0	6,635.5	6,843.1	6,722.7	19.7	17.9	141.34	-75.3	-461.4	474.9	441.5	33.44	14.204		
6,900.0	6,725.1	6,937.0	6,814.3	20.3	18.0	172.21	-92.3	-450.6	497.9	464.9	32.92	15.122		
7,000.0	6,816.0	7,026.0	6,897.1	20.7	18.1	-153.94	-107.6	-422.4	522.6	489.9	32.70	15.978		
7,100.0	6,903.5	7,111.4	6,969.8	21.0	18.1	-128.33	-121.1	-380.0	547.2	514.3	32.91	16.625		
7,200.0	6,983.2	7,194.5	7,031.6	21.1	18.2	-111.98	-132.4	-325.8	570.0	536.6	33.48	17.025		
7,300.0	7,050.9	7,275.0	7,080.9	21.1	18.3	-101.67	-141.3	-262.9	589.7	555.3	34.36	17.160		
7,400.0	7,103.3	7,356.4	7,118.5	21.1	18.7	-95.20	-148.1	-191.2	604.9	569.3	35.62	16.983		
7,500.0	7,137.6	7,436.2	7,142.3	20.9	19.3	-91.50	-152.2	-115.2	614.9	577.6	37.30	16.488		
7,600.0	7,152.0	7,515.8	7,152.1	20.7	20.2	-90.04	-153.7	-36.3	619.2	579.8	39.35	15.736		
7,700.0	7,152.4	7,611.6	7,152.4	20.5	21.5	-90.00	-153.4	59.5	619.4	577.5	41.87	14.793		
7,800.0	7,152.4	7,711.6	7,152.4	22.1	23.1	-90.00	-153.0	159.5	619.4	574.5	44.98	13.772		
7,900.0	7,152.4	7,811.6	7,152.4	23.9	24.9	-90.00	-152.6	259.5	619.5	571.0	48.54	12.762		
8,000.0	7,152.4	7,911.6	7,152.4	25.9	26.9	-90.00	-152.2	359.5	619.6	567.1	52.46	11.810		
8,100.0	7,152.4	8,011.6	7,152.4	28.1	29.0	-90.00	-151.8	459.5	619.6	563.0	56.67	10.934		
8,200.0	7,152.4	8,111.6	7,152.4	30.3	31.2	-90.00	-151.4	559.5	619.7	558.6	61.10	10.142		
8,300.0	7,152.4	8,211.6	7,152.4	32.6	33.6	-90.00	-151.0	659.5	619.8	554.1	65.72	9.431		
8,400.0	7,152.4	8,311.6	7,152.4	35.0	35.9	-90.00	-150.6	759.5	619.8	549.4	70.47	8.795		
8,500.0	7,152.4	8,411.6	7,152.4	37.4	38.4	-90.00	-150.2	859.5	619.9	544.6	75.35	8.227		
8,600.0	7,152.4	8,511.6	7,152.4	39.9	40.9	-90.00	-149.8	959.5	620.0	539.6	80.32	7.719		
8,700.0	7,152.4	8,611.6	7,152.4	42.4	43.4	-90.00	-149.4	1,059.5	620.0	534.7	85.37	7.263		
8,800.0	7,152.4	8,711.6	7,152.4	45.0	46.0	-90.00	-149.0	1,159.5	620.1	529.6	90.49	6.853		
8,900.0	7,152.4	8,811.6	7,152.4	47.5	48.6	-90.00	-148.6	1,259.5	620.2	524.5	95.66	6.483		
9,000.0	7,152.4	8,911.6	7,152.4	50.1	51.2	-90.00	-148.2	1,359.5	620.2	519.4	100.88	6.148		
9,100.0	7,152.4	9,011.6	7,152.4	52.8	53.8	-90.00	-147.8	1,459.5	620.3	514.2	106.14	5.844		
9,200.0	7,152.4	9,111.6	7,152.4	55.4	56.4	-90.00	-147.4	1,559.5	620.4	508.9	111.43	5.567		
9,300.0	7,152.4	9,211.6	7,152.4	58.0	59.1	-90.00	-147.0	1,659.5	620.4	503.7	116.75	5.314		
9,400.0	7,152.4	9,311.6	7,152.4	60.7	61.8	-90.00	-146.6	1,759.4	620.5	498.4	122.10	5.082		
9,500.0	7,152.4	9,411.6	7,152.4	63.4	64.5	-90.00	-146.2	1,859.4	620.6	493.1	127.47	4.868		
9,600.0	7,152.4	9,511.6	7,152.4	66.1	67.2	-90.00	-145.8	1,959.4	620.6	487.8	132.86	4.671		
9,700.0	7,152.4	9,611.6	7,152.4	68.8	69.9	-90.00	-145.4	2,059.4	620.7	482.4	138.27	4.489		
9,800.0	7,152.4	9,711.6	7,152.4	71.5	72.6	-90.00	-145.0	2,159.4	620.8	477.1	143.70	4.320		
9,900.0	7,152.4	9,811.6	7,152.4	74.2	75.3	-90.00	-144.6	2,259.4	620.8	471.7	149.13	4.163		
10,000.0	7,152.4	9,911.6	7,152.4	76.9	78.0	-90.00	-144.2	2,359.4	620.9	466.3	154.58	4.017		
10,100.0	7,152.4	10,011.6	7,152.4	79.6	80.7	-90.00	-143.8	2,459.4	621.0	460.9	160.04	3.880		
10,200.0	7,152.4	10,111.6	7,152.4	82.4	83.5	-90.00	-143.4	2,559.4	621.0	455.5	165.51	3.752		
10,300.0	7,152.4	10,211.6	7,152.4	85.1	86.2	-90.00	-143.0	2,659.4	621.1	450.1	170.99	3.632		

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 11-162HN
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 11-162HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle LC 11-122HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,400.0	7,152.4	10,311.6	7,152.4	87.8	89.0	-90.00	-142.6	2,759.4	621.2	444.7	176.48	3.520		
10,500.0	7,152.4	10,411.6	7,152.4	90.6	91.7	-90.00	-142.2	2,859.4	621.2	439.3	181.98	3.414		
10,600.0	7,152.4	10,511.6	7,152.4	93.3	94.5	-90.00	-141.8	2,959.4	621.3	433.8	187.48	3.314		
10,700.0	7,152.4	10,611.6	7,152.4	96.1	97.2	-90.00	-141.4	3,059.4	621.4	428.4	192.99	3.220		
10,800.0	7,152.4	10,711.6	7,152.4	98.8	100.0	-90.00	-141.0	3,159.4	621.4	422.9	198.50	3.131		
10,900.0	7,152.4	10,811.6	7,152.4	101.6	102.7	-90.00	-140.6	3,259.4	621.5	417.5	204.02	3.046		
11,000.0	7,152.4	10,911.6	7,152.4	104.3	105.5	-90.00	-140.2	3,359.4	621.6	412.0	209.55	2.966		
11,100.0	7,152.4	11,011.6	7,152.4	107.1	108.2	-90.00	-139.8	3,459.4	621.6	406.6	215.07	2.890		
11,200.0	7,152.4	11,111.6	7,152.4	109.9	111.0	-90.00	-139.4	3,559.4	621.7	401.1	220.61	2.818		
11,300.0	7,152.4	11,211.6	7,152.4	112.6	113.8	-90.00	-139.0	3,659.4	621.8	395.6	226.14	2.749		
11,400.0	7,152.4	11,311.6	7,152.4	115.4	116.5	-90.00	-138.6	3,759.4	621.8	390.1	231.68	2.684		
11,500.0	7,152.4	11,411.6	7,152.4	118.1	119.3	-90.00	-138.2	3,859.4	621.9	384.7	237.23	2.622		
11,600.0	7,152.4	11,511.6	7,152.4	120.9	122.1	-90.00	-137.7	3,959.4	622.0	379.2	242.77	2.562		
11,700.0	7,152.4	11,611.6	7,152.4	123.7	124.9	-90.00	-137.3	4,059.4	622.0	373.7	248.32	2.505		
11,800.0	7,152.4	11,711.6	7,152.4	126.5	127.6	-90.00	-136.9	4,159.4	622.1	368.2	253.87	2.450		
11,900.0	7,152.4	11,811.6	7,152.4	129.2	130.3	-90.00	-136.5	4,259.4	622.2	362.9	259.31	2.399		
11,974.5	7,152.4	11,886.1	7,152.4	130.6	131.6	-90.00	-136.2	4,333.9	622.2	360.3	261.95	2.375 SF		

Company:	Great Western	Local Co-ordinate Reference:	Well PostleIC 11-162HN
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:	PostleIC 11-162HN	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 - PostleIC 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		
0.0	0.0	0.0	0.0	0.0	0.0	87.92	1.1	30.1	30.2					
100.0	100.0	100.0	100.0	0.1	0.1	87.92	1.1	30.1	30.2	29.9	0.22	134.227		
200.0	200.0	200.0	200.0	0.3	0.3	87.92	1.1	30.1	30.2	29.5	0.67	44.742		
300.0	300.0	300.0	300.0	0.6	0.6	87.92	1.1	30.1	30.2	29.0	1.12	26.845		
400.0	400.0	400.0	400.0	0.8	0.8	87.92	1.1	30.1	30.2	28.6	1.57	19.175		
500.0	500.0	500.0	500.0	1.0	1.0	87.92	1.1	30.1	30.2	28.1	2.02	14.914		
600.0	600.0	600.0	600.0	1.2	1.2	87.92	1.1	30.1	30.2	27.7	2.47	12.202		
700.0	700.0	700.0	700.0	1.5	1.5	87.92	1.1	30.1	30.2	27.2	2.92	10.325		
800.0	800.0	800.0	800.0	1.7	1.7	87.92	1.1	30.1	30.2	26.8	3.37	8.948		
900.0	900.0	900.0	900.0	1.9	1.9	87.92	1.1	30.1	30.2	26.3	3.82	7.896		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	87.92	1.1	30.1	30.2	25.9	4.27	7.065		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	87.92	1.1	30.1	30.2	25.4	4.72	6.392		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	87.92	1.1	30.1	30.2	25.0	5.17	5.836		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	87.92	1.1	30.1	30.2	24.6	5.62	5.369		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	87.92	1.1	30.1	30.2	24.1	6.07	4.971		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	87.92	1.1	30.1	30.2	23.7	6.52	4.629		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	87.92	1.1	30.1	30.2	23.2	6.97	4.330		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	87.92	1.1	30.1	30.2	22.8	7.42	4.067		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	87.92	1.1	30.1	30.2	22.3	7.87	3.835		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	87.92	1.1	30.1	30.2	21.9	8.32	3.628		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	87.92	1.1	30.1	30.2	21.4	8.77	3.442		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	87.92	1.1	30.1	30.2	21.0	9.22	3.274		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	87.92	1.1	30.1	30.2	20.5	9.66	3.122		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	87.92	1.1	30.1	30.2	20.1	10.11	2.983		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	87.92	1.1	30.1	30.2	19.6	10.56	2.856		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	87.92	1.1	30.1	30.2	19.2	11.01	2.739		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	87.92	1.1	30.1	30.2	18.7	11.46	2.632		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	87.92	1.1	30.1	30.2	18.3	11.91	2.533		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	87.92	1.1	30.1	30.2	17.8	12.36	2.440		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	87.92	1.1	30.1	30.2	17.4	12.81	2.355		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	87.92	1.1	30.1	30.2	16.9	13.26	2.275		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	87.92	1.1	30.1	30.2	16.5	13.71	2.200		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	87.92	1.1	30.1	30.2	16.0	14.16	2.131		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	87.92	1.1	30.1	30.2	15.6	14.61	2.065		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	87.92	1.1	30.1	30.2	15.1	15.06	2.003		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	87.92	1.1	30.1	30.2	14.7	15.51	1.945		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	87.92	1.1	30.1	30.2	14.2	15.96	1.891		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	87.92	1.1	30.1	30.2	13.8	16.41	1.839		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	87.92	1.1	30.1	30.2	13.3	16.86	1.790		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	87.92	1.1	30.1	30.2	12.9	17.31	1.743		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	87.92	1.1	30.1	30.2	12.4	17.76	1.699		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	87.92	1.1	30.1	30.2	12.0	18.21	1.657		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	87.92	1.1	30.1	30.2	11.5	18.66	1.617		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	87.92	1.1	30.1	30.2	11.1	19.11	1.579		
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	87.92	1.1	30.1	30.2	10.6	19.55	1.543		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	87.92	1.1	30.1	30.2	10.2	20.00	1.508		
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	87.92	1.1	30.1	30.2	9.7	20.45	1.475 Level 3		
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	87.92	1.1	30.1	30.2	9.3	20.90	1.443 Level 3		
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	87.92	1.1	30.1	30.2	8.8	21.35	1.413 Level 3		
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	87.92	1.1	30.1	30.2	8.4	21.80	1.384 Level 3, CC, ES, SF		
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	-133.52	1.1	30.1	31.3	9.1	22.22	1.408 Level 3		
5,100.0	5,099.7	5,099.7	5,099.7	11.3	11.4	-141.22	1.1	30.1	36.3	13.7	22.58	1.609		

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 11-162HN
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 11-162HN	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 11-159HC - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance		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		
5,200.0	5,199.0	5,199.0	5,199.0	11.5	11.6	-150.40	1.1	30.1	46.3	23.4	22.87	2.025		
5,300.0	5,297.5	5,297.5	5,297.5	11.7	11.8	-158.10	1.1	30.1	61.9	38.8	23.10	2.679		
5,400.0	5,395.0	5,399.2	5,399.1	11.9	12.0	-163.97	-0.3	28.0	80.6	57.3	23.25	3.467		
5,500.0	5,491.1	5,501.9	5,501.5	12.1	12.2	-168.65	-4.6	21.1	99.6	76.3	23.32	4.272		
5,600.0	5,585.7	5,605.6	5,604.3	12.4	12.4	-172.70	-11.8	9.5	119.0	95.6	23.35	5.096		
5,700.0	5,678.5	5,710.2	5,707.1	12.7	12.6	-176.40	-22.2	-7.1	138.7	115.3	23.34	5.942		
5,800.0	5,769.2	5,815.7	5,809.5	13.0	12.8	-179.86	-35.6	-28.5	158.7	135.4	23.30	6.812		
5,900.0	5,857.6	5,922.0	5,911.1	13.5	13.1	-176.84	-52.2	-55.0	179.3	156.0	23.26	7.706		
6,000.0	5,944.1	6,029.5	6,011.9	14.0	13.4	-173.64	-71.9	-86.5	198.9	175.3	23.63	8.418		
6,100.0	6,030.5	6,138.4	6,111.7	14.6	13.8	-170.32	-95.0	-123.4	214.1	189.9	24.21	8.844		
6,200.0	6,116.9	6,248.1	6,209.6	15.2	14.3	-166.68	-121.2	-165.3	225.0	200.1	24.92	9.027		
6,300.0	6,203.3	6,353.3	6,300.9	15.9	14.9	-162.81	-148.9	-209.6	232.2	206.4	25.78	9.005		
6,400.0	6,289.8	6,451.9	6,386.0	16.6	15.5	-159.27	-175.3	-251.8	239.5	212.7	26.76	8.951		
6,500.0	6,376.2	6,550.5	6,471.1	17.4	16.1	-155.94	-201.8	-294.1	247.7	219.8	27.87	8.888		
6,600.0	6,462.6	6,649.2	6,556.2	18.1	16.8	-152.83	-228.2	-336.4	258.7	227.6	29.11	8.818		
6,700.0	6,549.0	6,747.8	6,641.4	18.9	17.5	-149.94	-254.7	-378.6	266.4	235.9	30.47	8.742		
6,800.0	6,635.5	6,846.0	6,726.1	19.7	18.2	-150.32	-281.0	-420.6	276.7	244.8	31.90	8.673		
6,900.0	6,725.1	6,940.8	6,811.9	20.3	18.7	-173.38	-307.6	-450.2	288.0	255.1	32.91	8.751		
7,000.0	6,816.0	7,038.5	6,904.6	20.7	19.1	-160.05	-336.3	-459.9	300.2	266.6	33.55	8.947		
7,100.0	6,903.5	7,139.7	7,000.3	21.0	19.3	-140.93	-365.8	-447.2	312.6	278.8	33.84	9.240		
7,200.0	6,983.2	7,244.8	7,094.1	21.1	19.4	-130.07	-394.6	-410.2	324.7	290.8	33.87	9.587		
7,300.0	7,050.9	7,354.0	7,179.9	21.1	19.3	-124.13	-420.9	-348.4	335.5	301.6	33.85	9.910		
7,400.0	7,103.3	7,467.1	7,250.7	21.1	19.3	-120.90	-442.4	-263.2	344.2	310.1	34.12	10.089		
7,500.0	7,137.6	7,583.5	7,299.5	20.9	19.5	-119.25	-457.1	-159.0	350.1	315.1	35.01	10.000		
7,600.0	7,152.0	7,701.9	7,320.8	20.7	20.1	-118.64	-463.3	-43.0	352.7	316.0	36.72	9.606		
7,700.0	7,152.4	7,805.8	7,321.4	20.5	21.3	-118.62	-463.1	60.8	352.8	313.8	38.96	9.055		
7,800.0	7,152.4	7,905.8	7,321.4	22.1	22.8	-118.62	-462.7	160.8	352.8	311.2	41.67	8.468		
7,900.0	7,152.4	8,005.8	7,321.4	23.9	24.6	-118.62	-462.3	260.8	352.9	308.1	44.76	7.883		
8,000.0	7,152.4	8,105.8	7,321.4	25.9	26.5	-118.61	-462.0	360.8	352.9	304.7	48.17	7.326		
8,100.0	7,152.4	8,205.8	7,321.4	28.1	28.6	-118.61	-461.6	460.8	352.9	301.1	51.84	6.809		
8,200.0	7,152.4	8,305.8	7,321.4	30.3	30.8	-118.61	-461.2	560.8	353.0	297.3	55.70	6.337		
8,300.0	7,152.4	8,405.8	7,321.4	32.6	33.1	-118.60	-460.8	660.8	353.0	293.3	59.73	5.910		
8,400.0	7,152.4	8,505.8	7,321.4	35.0	35.5	-118.60	-460.4	760.8	353.1	289.2	63.90	5.526		
8,500.0	7,152.4	8,605.8	7,321.4	37.4	37.9	-118.60	-460.1	860.8	353.1	284.9	68.17	5.180		
8,600.0	7,152.4	8,705.8	7,321.4	39.9	40.4	-118.59	-459.7	960.8	353.1	280.6	72.53	4.869		
8,700.0	7,152.4	8,805.8	7,321.4	42.4	42.9	-118.59	-459.3	1,060.8	353.2	276.2	76.96	4.589		
8,800.0	7,152.4	8,905.8	7,321.4	45.0	45.4	-118.59	-458.9	1,160.8	353.2	271.7	81.46	4.336		
8,900.0	7,152.4	9,005.8	7,321.4	47.5	48.0	-118.58	-458.6	1,260.8	353.2	267.2	86.01	4.107		
9,000.0	7,152.4	9,105.8	7,321.4	50.1	50.6	-118.58	-458.2	1,360.8	353.3	262.7	90.61	3.899		
9,100.0	7,152.4	9,205.8	7,321.4	52.8	53.2	-118.58	-457.8	1,460.8	353.3	258.1	95.24	3.710		
9,200.0	7,152.4	9,305.8	7,321.4	55.4	55.8	-118.57	-457.4	1,560.8	353.3	253.4	99.91	3.537		
9,300.0	7,152.4	9,405.8	7,321.4	58.0	58.5	-118.57	-457.1	1,660.8	353.4	248.8	104.60	3.378		
9,400.0	7,152.4	9,505.8	7,321.4	60.7	61.2	-118.57	-456.7	1,760.8	353.4	244.1	109.32	3.233		
9,500.0	7,152.4	9,605.8	7,321.4	63.4	63.8	-118.56	-456.3	1,860.8	353.5	239.4	114.06	3.099		
9,600.0	7,152.4	9,705.8	7,321.4	66.1	66.5	-118.56	-455.9	1,960.8	353.5	234.7	118.82	2.975		
9,700.0	7,152.4	9,805.8	7,321.4	68.8	69.2	-118.56	-455.6	2,060.8	353.5	229.9	123.60	2.860		
9,800.0	7,152.4	9,905.8	7,321.4	71.5	71.9	-118.55	-455.2	2,160.8	353.6	225.2	128.40	2.754		
9,900.0	7,152.4	10,005.8	7,321.4	74.2	74.6	-118.55	-454.8	2,260.8	353.6	220.4	133.20	2.655		
10,000.0	7,152.4	10,105.8	7,321.4	76.9	77.4	-118.55	-454.4	2,360.8	353.6	215.6	138.02	2.562		
10,100.0	7,152.4	10,205.8	7,321.4	79.6	80.1	-118.54	-454.0	2,460.8	353.7	210.8	142.85	2.476		
10,200.0	7,152.4	10,305.8	7,321.4	82.4	82.8	-118.54	-453.7	2,560.8	353.7	206.0	147.69	2.395		
10,300.0	7,152.4	10,405.8	7,321.4	85.1	85.5	-118.54	-453.3	2,660.8	353.7	201.2	152.54	2.319		

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 11-162HN
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 11-162HN	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 11-159HC - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,400.0	7,152.4	10,505.8	7,321.4	87.8	88.3	-118.53	-452.9	2,760.8	353.8	196.4	157.40	2.248		
10,500.0	7,152.4	10,605.8	7,321.4	90.6	91.0	-118.53	-452.5	2,860.8	353.8	191.6	162.26	2.181		
10,600.0	7,152.4	10,705.8	7,321.4	93.3	93.8	-118.53	-452.2	2,960.8	353.9	186.7	167.13	2.117		
10,700.0	7,152.4	10,805.8	7,321.4	96.1	96.5	-118.52	-451.8	3,060.8	353.9	181.9	172.01	2.057		
10,800.0	7,152.4	10,905.8	7,321.4	98.8	99.3	-118.52	-451.4	3,160.8	353.9	177.0	176.90	2.001		
10,900.0	7,152.4	11,005.8	7,321.4	101.6	102.0	-118.52	-451.0	3,260.8	354.0	172.2	181.79	1.947		
11,000.0	7,152.4	11,105.8	7,321.4	104.3	104.8	-118.52	-450.7	3,360.8	354.0	167.3	186.68	1.896		
11,100.0	7,152.4	11,205.8	7,321.4	107.1	107.5	-118.51	-450.3	3,460.8	354.0	162.5	191.58	1.848		
11,200.0	7,152.4	11,305.8	7,321.4	109.9	110.3	-118.51	-449.9	3,560.8	354.1	157.6	196.48	1.802		
11,300.0	7,152.4	11,405.8	7,321.4	112.6	113.1	-118.51	-449.5	3,660.8	354.1	152.7	201.39	1.758		
11,400.0	7,152.4	11,505.8	7,321.4	115.4	115.8	-118.50	-449.2	3,760.8	354.2	147.9	206.30	1.717		
11,500.0	7,152.4	11,605.8	7,321.4	118.1	118.6	-118.50	-448.8	3,860.8	354.2	143.0	211.21	1.677		
11,600.0	7,152.4	11,705.8	7,321.4	120.9	121.4	-118.50	-448.4	3,960.8	354.2	138.1	216.13	1.639		
11,700.0	7,152.4	11,805.8	7,321.4	123.7	124.1	-118.49	-448.0	4,060.8	354.3	133.2	221.05	1.603		
11,800.0	7,152.4	11,905.8	7,321.4	126.5	126.9	-118.49	-447.6	4,160.8	354.3	128.3	225.98	1.568		
11,900.0	7,152.4	12,005.8	7,321.4	129.2	129.7	-118.49	-447.3	4,260.8	354.3	123.4	230.90	1.535		
11,974.5	7,152.4	12,080.2	7,321.4	130.6	131.8	-118.48	-447.0	4,335.2	354.4	120.5	233.90	1.515		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-162HN
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 11-162HN	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											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-94.22	-2.2	-29.6	29.7					
100.0	100.0	100.0	100.0	0.1	0.1	-94.22	-2.2	-29.6	29.7	29.4	0.22	132.013		
200.0	200.0	200.0	200.0	0.3	0.3	-94.22	-2.2	-29.6	29.7	29.0	0.67	44.004		
300.0	300.0	300.0	300.0	0.6	0.6	-94.22	-2.2	-29.6	29.7	28.5	1.12	26.403		
400.0	400.0	400.0	400.0	0.8	0.8	-94.22	-2.2	-29.6	29.7	28.1	1.57	18.859		
500.0	500.0	500.0	500.0	1.0	1.0	-94.22	-2.2	-29.6	29.7	27.6	2.02	14.668		
600.0	600.0	600.0	600.0	1.2	1.2	-94.22	-2.2	-29.6	29.7	27.2	2.47	12.001		
700.0	700.0	700.0	700.0	1.5	1.5	-94.22	-2.2	-29.6	29.7	26.8	2.92	10.155		
800.0	800.0	800.0	800.0	1.7	1.7	-94.22	-2.2	-29.6	29.7	26.3	3.37	8.801		
900.0	900.0	900.0	900.0	1.9	1.9	-94.22	-2.2	-29.6	29.7	25.9	3.82	7.765		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-94.22	-2.2	-29.6	29.7	25.4	4.27	6.948		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-94.22	-2.2	-29.6	29.7	25.0	4.72	6.286		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-94.22	-2.2	-29.6	29.7	24.5	5.17	5.740		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-94.22	-2.2	-29.6	29.7	24.1	5.62	5.281		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-94.22	-2.2	-29.6	29.7	23.6	6.07	4.889		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-94.22	-2.2	-29.6	29.7	23.2	6.52	4.552		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-94.22	-2.2	-29.6	29.7	22.7	6.97	4.258		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-94.22	-2.2	-29.6	29.7	22.3	7.42	4.000		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-94.22	-2.2	-29.6	29.7	21.8	7.87	3.772		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-94.22	-2.2	-29.6	29.7	21.4	8.32	3.568		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-94.22	-2.2	-29.6	29.7	20.9	8.77	3.385		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-94.22	-2.2	-29.6	29.7	20.5	9.22	3.220		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-94.22	-2.2	-29.6	29.7	20.0	9.66	3.070		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-94.22	-2.2	-29.6	29.7	19.6	10.11	2.934		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-94.22	-2.2	-29.6	29.7	19.1	10.56	2.809		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-94.22	-2.2	-29.6	29.7	18.7	11.01	2.694		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-94.22	-2.2	-29.6	29.7	18.2	11.46	2.588		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-94.22	-2.2	-29.6	29.7	17.8	11.91	2.491		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-94.22	-2.2	-29.6	29.7	17.3	12.36	2.400		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-94.22	-2.2	-29.6	29.7	16.9	12.81	2.316		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-94.22	-2.2	-29.6	29.7	16.4	13.26	2.238		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-94.22	-2.2	-29.6	29.7	16.0	13.71	2.164		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-94.22	-2.2	-29.6	29.7	15.5	14.16	2.095		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-94.22	-2.2	-29.6	29.7	15.1	14.61	2.031		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-94.22	-2.2	-29.6	29.7	14.6	15.06	1.970		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-94.22	-2.2	-29.6	29.7	14.2	15.51	1.913		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-94.22	-2.2	-29.6	29.7	13.7	15.96	1.859		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-94.22	-2.2	-29.6	29.7	13.3	16.41	1.808		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-94.22	-2.2	-29.6	29.7	12.8	16.86	1.760		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-94.22	-2.2	-29.6	29.7	12.4	17.31	1.714		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-94.22	-2.2	-29.6	29.7	11.9	17.76	1.671		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-94.22	-2.2	-29.6	29.7	11.5	18.21	1.630 CC, ES, SF		
4,200.0	4,200.0	4,199.3	4,199.2	9.3	9.3	-98.60	-4.6	-30.5	30.8	12.2	18.63	1.656		
4,300.0	4,300.0	4,298.0	4,297.7	9.6	9.5	-109.63	-11.8	-33.1	35.2	16.2	19.02	1.853		
4,400.0	4,400.0	4,395.7	4,394.5	9.8	9.6	-122.25	-23.6	-37.5	44.6	25.2	19.41	2.299		
4,500.0	4,500.0	4,491.9	4,489.1	10.0	9.8	-132.53	-39.8	-43.4	59.9	40.1	19.81	3.022		
4,600.0	4,600.0	4,586.0	4,580.8	10.2	10.0	-139.74	-59.9	-50.8	80.9	60.6	20.21	4.001		
4,700.0	4,700.0	4,677.9	4,669.1	10.5	10.2	-144.60	-83.6	-59.5	107.2	86.6	20.62	5.199		
4,800.0	4,800.0	4,767.0	4,753.6	10.7	10.5	-147.90	-110.4	-69.3	138.4	117.4	21.03	6.582		
4,900.0	4,900.0	4,853.3	4,833.9	10.9	10.7	-150.21	-139.9	-80.1	174.2	152.7	21.45	8.120		
5,000.0	5,000.0	4,936.9	4,910.4	11.1	11.0	-10.94	-171.6	-91.7	212.7	191.0	21.73	9.791		
5,100.0	5,099.7	5,019.3	4,984.2	11.3	11.4	-12.23	-205.9	-104.3	250.8	228.7	22.01	11.394		

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 11-162HN
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 11-162HN	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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
5,200.0	5,199.0	5,100.0	5,054.9	11.5	11.8	-13.37	-242.4	-117.7	288.2	265.9	22.25	12.951		
5,300.0	5,297.5	5,191.7	5,134.0	11.7	12.3	-14.60	-285.9	-133.6	323.5	301.0	22.49	14.387		
5,400.0	5,395.0	5,286.4	5,215.8	11.9	12.9	-15.82	-330.9	-150.1	354.4	331.7	22.70	15.608		
5,500.0	5,491.1	5,382.5	5,298.7	12.1	13.5	-17.06	-376.5	-166.8	380.6	357.7	22.91	16.615		
5,600.0	5,585.7	5,479.6	5,382.4	12.4	14.1	-18.38	-422.6	-183.7	402.2	379.1	23.10	17.407		
5,700.0	5,678.5	5,577.5	5,466.8	12.7	14.9	-19.82	-469.1	-200.8	419.2	395.9	23.31	17.984		
5,800.0	5,769.2	5,675.8	5,551.7	13.0	15.6	-21.42	-515.8	-217.9	431.7	408.2	23.54	18.337		
5,900.0	5,857.6	5,774.4	5,636.8	13.5	16.4	-23.22	-562.6	-235.0	439.8	416.0	23.83	18.458		
6,000.0	5,944.1	5,873.0	5,721.8	14.0	17.1	-25.22	-609.4	-252.2	444.9	420.4	24.46	18.192		
6,100.0	6,030.5	5,971.6	5,806.9	14.6	17.9	-27.21	-656.3	-269.4	450.4	425.1	25.26	17.833		
6,200.0	6,116.9	6,070.3	5,892.0	15.2	18.8	-29.15	-703.1	-286.5	456.4	430.3	26.13	17.465		
6,300.0	6,203.3	6,168.9	5,977.1	15.9	19.6	-31.03	-749.9	-303.7	462.9	435.9	27.09	17.089		
6,400.0	6,289.8	6,267.5	6,062.1	16.6	20.5	-32.86	-796.7	-320.9	470.0	441.9	28.13	16.709		
6,500.0	6,376.2	6,366.1	6,147.2	17.4	21.3	-34.64	-843.6	-338.0	477.5	448.3	29.25	16.327		
6,600.0	6,462.6	6,464.7	6,232.3	18.1	22.2	-36.37	-890.4	-355.2	485.5	455.0	30.44	15.947		
6,700.0	6,549.0	6,563.3	6,317.3	18.9	23.1	-38.03	-937.2	-372.4	493.9	462.2	31.72	15.571		
6,800.0	6,635.5	6,661.9	6,402.4	19.7	23.9	-36.91	-984.0	-389.5	502.7	469.6	33.08	15.195		
6,900.0	6,725.1	6,761.4	6,488.2	20.3	24.8	-13.40	-1,031.3	-406.8	510.4	476.4	34.01	15.007		
7,000.0	6,816.0	6,858.3	6,571.9	20.7	25.7	16.17	-1,077.3	-423.7	516.6	482.5	34.14	15.132		
7,100.0	6,903.5	6,947.7	6,649.0	21.0	26.5	39.88	-1,119.7	-439.3	523.7	489.7	33.94	15.428		
7,200.0	6,983.2	7,029.2	6,719.4	21.1	27.3	55.68	-1,158.5	-452.8	536.0	502.1	33.94	15.792		
7,300.0	7,050.9	7,127.4	6,805.3	21.1	28.0	66.89	-1,205.7	-453.7	555.6	521.3	34.30	16.200		
7,400.0	7,103.3	7,254.1	6,912.5	21.1	28.7	75.81	-1,264.6	-423.0	580.7	545.7	35.01	16.586		
7,500.0	7,137.6	7,436.5	7,043.9	20.9	29.3	84.04	-1,336.7	-321.2	606.4	570.4	35.99	16.850		
7,600.0	7,152.0	7,707.1	7,147.8	20.7	29.6	89.75	-1,393.3	-82.6	622.0	583.8	38.13	16.312		
7,700.0	7,152.4	7,853.4	7,152.4	20.5	29.6	90.00	-1,395.4	63.5	622.7	581.8	40.90	15.224		
7,800.0	7,152.4	7,953.4	7,152.4	22.1	29.8	90.00	-1,395.2	163.5	622.8	579.0	43.81	14.215		
7,900.0	7,152.4	8,053.4	7,152.4	23.9	30.2	90.00	-1,395.0	263.5	622.9	575.6	47.21	13.192		
8,000.0	7,152.4	8,153.4	7,152.4	25.9	30.8	90.00	-1,394.7	363.5	622.9	571.9	51.01	12.213		
8,100.0	7,152.4	8,253.4	7,152.4	28.1	31.9	90.00	-1,394.5	463.5	623.0	567.9	55.11	11.305		
8,200.0	7,152.4	8,353.4	7,152.4	30.3	33.3	90.00	-1,394.2	563.5	623.1	563.7	59.46	10.479		
8,300.0	7,152.4	8,453.4	7,152.4	32.6	35.1	90.00	-1,394.0	663.5	623.2	559.2	64.01	9.736		
8,400.0	7,152.4	8,553.4	7,152.4	35.0	37.1	90.00	-1,393.7	763.5	623.3	554.6	68.72	9.070		
8,500.0	7,152.4	8,653.4	7,152.4	37.4	39.2	90.00	-1,393.5	863.5	623.4	549.9	73.55	8.476		
8,600.0	7,152.4	8,753.4	7,152.4	39.9	41.5	90.00	-1,393.3	963.5	623.5	545.0	78.49	7.944		
8,700.0	7,152.4	8,853.4	7,152.4	42.4	43.8	90.00	-1,393.0	1,063.5	623.6	540.1	83.51	7.467		
8,800.0	7,152.4	8,953.4	7,152.4	45.0	46.2	90.00	-1,392.8	1,163.5	623.7	535.1	88.60	7.039		
8,900.0	7,152.4	9,053.4	7,152.4	47.5	48.6	90.00	-1,392.5	1,263.5	623.8	530.0	93.75	6.653		
9,000.0	7,152.4	9,153.4	7,152.4	50.1	51.1	90.00	-1,392.3	1,363.5	623.9	524.9	98.96	6.304		
9,100.0	7,152.4	9,253.4	7,152.4	52.8	53.6	90.00	-1,392.0	1,463.5	624.0	519.8	104.20	5.988		
9,200.0	7,152.4	9,353.4	7,152.4	55.4	56.2	90.00	-1,391.8	1,563.5	624.0	514.6	109.48	5.700		
9,300.0	7,152.4	9,453.4	7,152.4	58.0	58.8	90.00	-1,391.5	1,663.5	624.1	509.3	114.79	5.437		
9,400.0	7,152.4	9,553.4	7,152.4	60.7	61.4	90.00	-1,391.3	1,763.5	624.2	504.1	120.13	5.196		
9,500.0	7,152.4	9,653.4	7,152.4	63.4	64.0	90.00	-1,391.1	1,863.5	624.3	498.8	125.49	4.975		
9,600.0	7,152.4	9,753.4	7,152.4	66.1	66.6	90.00	-1,390.8	1,963.5	624.4	493.5	130.88	4.771		
9,700.0	7,152.4	9,853.4	7,152.4	68.8	69.3	90.00	-1,390.6	2,063.5	624.5	488.2	136.28	4.583		
9,800.0	7,152.4	9,953.4	7,152.4	71.5	71.9	90.00	-1,390.3	2,163.5	624.6	482.9	141.70	4.408		
9,900.0	7,152.4	10,053.4	7,152.4	74.2	74.6	90.00	-1,390.1	2,263.5	624.7	477.6	147.13	4.246		
10,000.0	7,152.4	10,153.4	7,152.4	76.9	77.3	90.00	-1,389.8	2,363.5	624.8	472.2	152.58	4.095		
10,100.0	7,152.4	10,253.4	7,152.4	79.6	80.0	90.00	-1,389.6	2,463.5	624.9	466.8	158.03	3.954		
10,200.0	7,152.4	10,353.4	7,152.4	82.4	82.7	90.00	-1,389.4	2,563.5	625.0	461.5	163.50	3.822		
10,300.0	7,152.4	10,453.4	7,152.4	85.1	85.4	90.00	-1,389.1	2,663.5	625.1	456.1	168.98	3.699		

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 PostleIC 11-162HN
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:	PostleIC 11-162HN	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 - PostleIC 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		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	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)						
10,400.0	7,152.4	10,553.4	7,152.4	87.8	88.1	90.00	-1,388.9	2,763.5	625.1	450.7	174.46	3.583		
10,500.0	7,152.4	10,653.4	7,152.4	90.6	90.8	90.00	-1,388.6	2,863.5	625.2	445.3	179.95	3.474		
10,600.0	7,152.4	10,753.4	7,152.4	93.3	93.5	90.00	-1,388.4	2,963.5	625.3	439.9	185.45	3.372		
10,700.0	7,152.4	10,853.4	7,152.4	96.1	96.2	90.00	-1,388.1	3,063.5	625.4	434.5	190.96	3.275		
10,800.0	7,152.4	10,953.4	7,152.4	98.8	98.9	90.00	-1,387.9	3,163.5	625.5	429.0	196.47	3.184		
10,900.0	7,152.4	11,053.4	7,152.4	101.6	101.7	90.00	-1,387.7	3,263.5	625.6	423.6	201.99	3.097		
11,000.0	7,152.4	11,153.4	7,152.4	104.3	104.4	90.00	-1,387.4	3,363.5	625.7	418.2	207.51	3.015		
11,100.0	7,152.4	11,253.4	7,152.4	107.1	107.2	90.00	-1,387.2	3,463.5	625.8	412.7	213.04	2.937		
11,200.0	7,152.4	11,353.4	7,152.4	109.9	109.9	90.00	-1,386.9	3,563.5	625.9	407.3	218.57	2.864		
11,300.0	7,152.4	11,453.4	7,152.4	112.6	112.6	90.00	-1,386.7	3,663.5	626.0	401.9	224.10	2.793		
11,400.0	7,152.4	11,553.4	7,152.4	115.4	115.4	90.00	-1,386.4	3,763.5	626.1	396.4	229.64	2.726		
11,500.0	7,152.4	11,653.4	7,152.4	118.1	118.1	90.00	-1,386.2	3,863.5	626.2	391.0	235.19	2.662		
11,600.0	7,152.4	11,753.4	7,152.4	120.9	120.9	90.00	-1,385.9	3,963.5	626.2	385.5	240.73	2.601		
11,700.0	7,152.4	11,853.4	7,152.4	123.7	123.7	90.00	-1,385.7	4,063.5	626.3	380.1	246.28	2.543		
11,800.0	7,152.4	11,953.4	7,152.4	126.5	126.4	90.00	-1,385.5	4,163.5	626.4	374.6	251.83	2.487		
11,900.0	7,152.4	12,053.4	7,152.4	129.2	129.2	90.00	-1,385.2	4,263.5	626.5	369.1	257.38	2.434		
11,936.5	7,152.4	12,089.9	7,152.4	129.9	130.2	90.00	-1,385.1	4,300.0	626.6	367.5	259.05	2.419		
11,974.5	7,152.4	12,123.4	7,152.4	130.6	130.9	90.00	-1,385.0	4,333.4	626.6	366.2	260.41	2.406		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-162HN
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 11-162HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (12-10-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle LC 11-259HC - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Reference	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-92.79		-2.9	-59.7	59.8				
100.0	100.0	100.0	100.0	0.1	0.1	-92.79		-2.9	-59.7	59.8	59.6	0.22	266.110	
200.0	200.0	200.0	200.0	0.3	0.3	-92.79		-2.9	-59.7	59.8	59.1	0.67	88.703	
300.0	300.0	300.0	300.0	0.6	0.6	-92.79		-2.9	-59.7	59.8	58.7	1.12	53.222	
400.0	400.0	400.0	400.0	0.8	0.8	-92.79		-2.9	-59.7	59.8	58.2	1.57	38.016	
500.0	500.0	500.0	500.0	1.0	1.0	-92.79		-2.9	-59.7	59.8	57.8	2.02	29.568	
600.0	600.0	600.0	600.0	1.2	1.2	-92.79		-2.9	-59.7	59.8	57.3	2.47	24.192	
700.0	700.0	700.0	700.0	1.5	1.5	-92.79		-2.9	-59.7	59.8	56.9	2.92	20.470	
800.0	800.0	800.0	800.0	1.7	1.7	-92.79		-2.9	-59.7	59.8	56.4	3.37	17.741	
900.0	900.0	900.0	900.0	1.9	1.9	-92.79		-2.9	-59.7	59.8	56.0	3.82	15.654	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-92.79		-2.9	-59.7	59.8	55.5	4.27	14.006	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-92.79		-2.9	-59.7	59.8	55.1	4.72	12.672	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-92.79		-2.9	-59.7	59.8	54.6	5.17	11.570	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-92.79		-2.9	-59.7	59.8	54.2	5.62	10.644	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-92.79		-2.9	-59.7	59.8	53.7	6.07	9.856	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-92.79		-2.9	-59.7	59.8	53.3	6.52	9.176	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-92.79		-2.9	-59.7	59.8	52.8	6.97	8.584	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-92.79		-2.9	-59.7	59.8	52.4	7.42	8.064	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-92.79		-2.9	-59.7	59.8	51.9	7.87	7.603	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-92.79		-2.9	-59.7	59.8	51.5	8.32	7.192	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-92.79		-2.9	-59.7	59.8	51.0	8.77	6.823	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-92.79		-2.9	-59.7	59.8	50.6	9.22	6.490	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-92.79		-2.9	-59.7	59.8	50.1	9.66	6.189	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-92.79		-2.9	-59.7	59.8	49.7	10.11	5.914	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-92.79		-2.9	-59.7	59.8	49.2	10.56	5.662	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-92.79		-2.9	-59.7	59.8	48.8	11.01	5.431	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-92.79		-2.9	-59.7	59.8	48.3	11.46	5.218	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-92.79		-2.9	-59.7	59.8	47.9	11.91	5.021	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-92.79		-2.9	-59.7	59.8	47.5	12.36	4.838	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-92.79		-2.9	-59.7	59.8	47.0	12.81	4.669	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-92.79		-2.9	-59.7	59.8	46.6	13.26	4.510	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-92.79		-2.9	-59.7	59.8	46.1	13.71	4.362	
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-92.79		-2.9	-59.7	59.8	45.7	14.16	4.224	
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-92.79		-2.9	-59.7	59.8	45.2	14.61	4.094	
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-92.79		-2.9	-59.7	59.8	44.8	15.06	3.972	
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-92.79		-2.9	-59.7	59.8	44.3	15.51	3.857	
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-92.79		-2.9	-59.7	59.8	43.9	15.96	3.748	
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-92.79		-2.9	-59.7	59.8	43.4	16.41	3.645	
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-92.79		-2.9	-59.7	59.8	43.0	16.86	3.548 CC, ES	
3,900.0	3,900.0	3,899.0	3,898.9	8.7	8.6	-95.10		-5.4	-60.4	60.7	43.4	17.28	3.511 SF	
4,000.0	4,000.0	3,997.4	3,997.0	8.9	8.8	-101.56		-12.8	-62.4	63.7	46.1	17.67	3.608	
4,100.0	4,100.0	4,094.8	4,093.6	9.1	9.0	-110.74		-24.8	-65.6	70.5	52.4	18.06	3.901	
4,200.0	4,200.0	4,190.7	4,187.9	9.3	9.1	-120.56		-41.4	-70.1	82.2	63.8	18.46	4.456	
4,300.0	4,300.0	4,284.6	4,279.4	9.6	9.3	-129.35		-62.0	-75.6	99.9	81.0	18.85	5.299	
4,400.0	4,400.0	4,376.2	4,367.5	9.8	9.5	-136.41		-86.2	-82.1	123.4	104.2	19.25	6.411	
4,500.0	4,500.0	4,465.1	4,451.7	10.0	9.8	-141.80		-113.6	-89.4	152.5	132.8	19.65	7.758	
4,600.0	4,600.0	4,551.1	4,531.9	10.2	10.1	-145.85		-143.7	-97.5	186.6	166.5	20.06	9.299	
4,700.0	4,700.0	4,634.1	4,607.8	10.5	10.4	-148.90		-176.0	-106.2	225.3	204.8	20.49	10.998	
4,800.0	4,800.0	4,713.8	4,679.3	10.7	10.7	-151.24		-210.0	-115.3	268.3	247.4	20.92	12.825	
4,900.0	4,900.0	4,790.2	4,746.4	10.9	11.1	-153.04		-245.3	-124.8	315.2	293.8	21.37	14.750	
5,000.0	5,000.0	4,873.1	4,818.0	11.1	11.6	-153.53		-285.8	-135.6	363.5	342.0	21.57	16.852	
5,100.0	5,099.7	4,962.2	4,894.8	11.3	12.1	-14.69		-329.4	-147.3	407.9	386.0	21.90	18.628	

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 11-162HN
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 11-162HN	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 11-259HC - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference	Offset	Semi Major Axis		Distance		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		
5,200.0	5,199.0	5,053.4	4,973.4	11.5	12.7	-15.77	-374.0	-159.3	447.9	425.7	22.20	20.178		
5,300.0	5,297.5	5,146.2	5,053.4	11.7	13.4	-16.83	-419.5	-171.5	483.4	460.9	22.47	21.510		
5,400.0	5,395.0	5,240.6	5,134.8	11.9	14.0	-17.91	-465.6	-183.9	514.5	491.7	22.73	22.631		
5,500.0	5,491.1	5,336.1	5,217.2	12.1	14.8	-19.05	-512.4	-196.4	541.0	518.1	22.98	23.545		
5,600.0	5,585.7	5,432.7	5,300.4	12.4	15.5	-20.28	-559.7	-209.1	563.1	539.9	23.22	24.253		
5,700.0	5,678.5	5,529.9	5,384.2	12.7	16.3	-21.63	-607.2	-221.9	580.8	557.3	23.47	24.751		
5,800.0	5,769.2	5,627.6	5,468.4	13.0	17.1	-23.11	-655.0	-234.7	594.1	570.4	23.74	25.029		
5,900.0	5,857.6	5,725.4	5,552.7	13.5	17.9	-24.76	-702.9	-247.5	603.1	579.1	24.06	25.073		
6,000.0	5,944.1	5,823.1	5,637.0	14.0	18.7	-26.60	-750.8	-260.4	609.3	584.7	24.69	24.677		
6,100.0	6,030.5	5,920.9	5,721.3	14.6	19.6	-28.43	-798.6	-273.2	616.0	590.5	25.49	24.168		
6,200.0	6,116.9	6,018.7	5,805.6	15.2	20.4	-30.22	-846.5	-286.0	623.4	597.0	26.36	23.649		
6,300.0	6,203.3	6,116.5	5,889.9	15.9	21.3	-31.96	-894.3	-298.9	631.3	604.0	27.30	23.123		
6,400.0	6,289.8	6,214.2	5,974.1	16.6	22.2	-33.67	-942.2	-311.7	639.8	611.5	28.32	22.592		
6,500.0	6,376.2	6,312.0	6,058.4	17.4	23.1	-35.33	-990.0	-324.5	648.9	619.5	29.42	22.061		
6,600.0	6,462.6	6,409.8	6,142.7	18.1	23.9	-36.94	-1,037.9	-337.4	658.6	628.0	30.59	21.533		
6,700.0	6,549.0	6,507.5	6,227.0	18.9	24.8	-38.51	-1,085.7	-350.2	668.7	636.9	31.83	21.012		
6,800.0	6,635.5	6,605.3	6,311.3	19.7	25.7	-37.34	-1,133.6	-363.0	679.4	646.2	33.17	20.483		
6,900.0	6,725.1	6,704.6	6,396.9	20.3	26.7	-14.42	-1,182.2	-376.1	688.9	654.7	34.24	20.122		
7,000.0	6,816.0	6,802.3	6,481.1	20.7	27.6	14.06	-1,230.0	-388.9	696.3	661.7	34.55	20.152		
7,100.0	6,903.5	6,893.4	6,559.7	21.0	28.4	36.55	-1,274.6	-400.9	702.7	668.3	34.42	20.418		
7,200.0	6,983.2	6,973.2	6,628.5	21.1	29.2	51.18	-1,313.7	-411.3	711.4	677.0	34.32	20.726		
7,300.0	7,050.9	7,037.7	6,684.1	21.1	29.8	59.98	-1,345.2	-419.8	726.0	691.5	34.55	21.013		
7,400.0	7,103.3	7,083.5	6,723.6	21.1	30.2	63.89	-1,367.7	-425.8	750.0	714.9	35.08	21.376		
7,500.0	7,137.6	7,108.3	6,744.9	20.9	30.4	63.08	-1,379.8	-429.1	784.6	749.0	35.60	22.038		
7,600.0	7,152.0	7,110.8	6,747.1	20.7	30.5	57.68	-1,381.0	-429.4	828.8	793.4	35.41	23.406		
7,700.0	7,152.4	7,098.0	6,736.1	20.5	30.3	55.26	-1,374.8	-427.7	880.6	844.8	35.86	24.554		
7,800.0	7,152.4	7,084.7	6,724.6	22.1	30.2	54.23	-1,368.2	-426.0	940.0	903.2	36.85	25.511		
7,900.0	7,152.4	8,301.8	7,321.4	23.9	35.5	100.26	-1,705.4	264.1	948.4	902.5	45.99	20.623		
8,000.0	7,152.4	8,401.8	7,321.4	25.9	36.0	100.26	-1,705.1	364.1	948.5	898.8	49.70	19.085		
8,100.0	7,152.4	8,501.8	7,321.4	28.1	36.7	100.26	-1,704.9	464.1	948.6	894.9	53.73	17.657		
8,200.0	7,152.4	8,601.8	7,321.4	30.3	37.7	100.26	-1,704.7	564.1	948.7	890.7	58.00	16.358		
8,300.0	7,152.4	8,701.8	7,321.4	32.6	38.9	100.26	-1,704.4	664.1	948.8	886.4	62.47	15.189		
8,400.0	7,152.4	8,801.8	7,321.4	35.0	40.5	100.26	-1,704.2	764.1	948.9	881.8	67.10	14.143		
8,500.0	7,152.4	8,901.8	7,321.4	37.4	42.2	100.26	-1,704.0	864.1	949.0	877.2	71.85	13.208		
8,600.0	7,152.4	9,001.8	7,321.4	39.9	44.1	100.26	-1,703.7	964.1	949.1	872.4	76.71	12.373		
8,700.0	7,152.4	9,101.8	7,321.4	42.4	46.2	100.26	-1,703.5	1,064.1	949.2	867.6	81.66	11.624		
8,800.0	7,152.4	9,201.8	7,321.4	45.0	48.4	100.25	-1,703.2	1,164.1	949.3	862.7	86.67	10.953		
8,900.0	7,152.4	9,301.8	7,321.4	47.5	50.6	100.25	-1,703.0	1,264.1	949.4	857.7	91.75	10.348		
9,000.0	7,152.4	9,401.8	7,321.4	50.1	53.0	100.25	-1,702.8	1,364.1	949.5	852.6	96.87	9.802		
9,100.0	7,152.4	9,501.8	7,321.4	52.8	55.4	100.25	-1,702.5	1,464.1	949.6	847.6	102.04	9.306		
9,200.0	7,152.4	9,601.8	7,321.4	55.4	57.8	100.25	-1,702.3	1,564.1	949.7	842.5	107.24	8.856		
9,300.0	7,152.4	9,701.8	7,321.4	58.0	60.3	100.25	-1,702.1	1,664.1	949.8	837.3	112.48	8.445		
9,400.0	7,152.4	9,801.8	7,321.4	60.7	62.8	100.25	-1,701.8	1,764.1	949.9	832.2	117.74	8.068		
9,500.0	7,152.4	9,901.8	7,321.4	63.4	65.3	100.25	-1,701.6	1,864.1	950.0	827.0	123.02	7.722		
9,600.0	7,152.4	10,001.8	7,321.4	66.1	67.9	100.25	-1,701.4	1,964.1	950.1	821.8	128.33	7.404		
9,700.0	7,152.4	10,101.8	7,321.4	68.8	70.5	100.24	-1,701.1	2,064.1	950.2	816.6	133.65	7.110		
9,800.0	7,152.4	10,201.8	7,321.4	71.5	73.1	100.24	-1,700.9	2,164.1	950.3	811.3	138.99	6.837		
9,900.0	7,152.4	10,301.8	7,321.4	74.2	75.7	100.24	-1,700.7	2,264.1	950.4	806.1	144.34	6.584		
10,000.0	7,152.4	10,401.8	7,321.4	76.9	78.3	100.24	-1,700.4	2,364.1	950.5	800.8	149.71	6.349		
10,100.0	7,152.4	10,501.8	7,321.4	79.6	81.0	100.24	-1,700.2	2,464.1	950.6	795.5	155.09	6.129		
10,200.0	7,152.4	10,601.8	7,321.4	82.4	83.6	100.24	-1,700.0	2,564.1	950.7	790.2	160.48	5.924		
10,300.0	7,152.4	10,701.8	7,321.4	85.1	86.3	100.24	-1,699.7	2,664.1	950.8	784.9	165.87	5.732		

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 PostleIC 11-162HN
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:	PostleIC 11-162HN	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 - PostleIC 11-259HC - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
10,400.0	7,152.4	10,801.8	7,321.4	87.8	89.0	100.24	-1,699.5	2,764.1	950.9	779.6	171.28	5.552		
10,500.0	7,152.4	10,901.8	7,321.4	90.6	91.7	100.24	-1,699.2	2,864.1	951.0	774.3	176.70	5.382		
10,600.0	7,152.4	11,001.8	7,321.4	93.3	94.4	100.24	-1,699.0	2,964.1	951.1	769.0	182.12	5.222		
10,700.0	7,152.4	11,101.8	7,321.4	96.1	97.1	100.23	-1,698.8	3,064.1	951.2	763.6	187.54	5.072		
10,800.0	7,152.4	11,201.8	7,321.4	98.8	99.8	100.23	-1,698.5	3,164.1	951.3	758.3	192.98	4.930		
10,900.0	7,152.4	11,301.8	7,321.4	101.6	102.5	100.23	-1,698.3	3,264.1	951.4	753.0	198.41	4.795		
11,000.0	7,152.4	11,401.8	7,321.4	104.3	105.2	100.23	-1,698.1	3,364.1	951.5	747.6	203.86	4.667		
11,100.0	7,152.4	11,501.8	7,321.4	107.1	107.9	100.23	-1,697.8	3,464.1	951.6	742.3	209.31	4.546		
11,200.0	7,152.4	11,601.8	7,321.4	109.9	110.6	100.23	-1,697.6	3,564.1	951.7	736.9	214.76	4.431		
11,300.0	7,152.4	11,701.8	7,321.4	112.6	113.4	100.23	-1,697.4	3,664.1	951.8	731.6	220.21	4.322		
11,400.0	7,152.4	11,801.8	7,321.4	115.4	116.1	100.23	-1,697.1	3,764.1	951.9	726.2	225.67	4.218		
11,500.0	7,152.4	11,901.8	7,321.4	118.1	118.8	100.23	-1,696.9	3,864.1	952.0	720.8	231.14	4.119		
11,600.0	7,152.4	12,001.8	7,321.4	120.9	121.6	100.22	-1,696.7	3,964.1	952.1	715.5	236.60	4.024		
11,700.0	7,152.4	12,101.8	7,321.4	123.7	124.3	100.22	-1,696.4	4,064.1	952.2	710.1	242.07	3.933		
11,800.0	7,152.4	12,201.8	7,321.4	126.5	127.0	100.22	-1,696.2	4,164.1	952.3	704.7	247.54	3.847		
11,900.0	7,152.4	12,301.8	7,321.4	129.2	129.8	100.22	-1,696.0	4,264.1	952.4	699.4	253.00	3.764		
11,934.6	7,152.4	12,336.5	7,321.4	129.9	130.4	100.22	-1,695.9	4,298.8	952.4	698.2	254.21	3.746		
11,974.5	7,152.4	12,369.5	7,321.4	130.6	131.0	100.22	-1,695.8	4,331.8	952.5	697.0	255.49	3.728		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-162HN
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 11-162HN	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 11-279HN - 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 Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-92.57	-4.0	-89.3	89.4					
100.0	100.0	100.0	100.0	0.1	0.1	-92.57	-4.0	-89.3	89.4	89.2	0.22	397.848		
200.0	200.0	200.0	200.0	0.3	0.3	-92.57	-4.0	-89.3	89.4	88.7	0.67	132.616		
300.0	300.0	300.0	300.0	0.6	0.6	-92.57	-4.0	-89.3	89.4	88.3	1.12	79.570		
400.0	400.0	400.0	400.0	0.8	0.8	-92.57	-4.0	-89.3	89.4	87.8	1.57	56.835		
500.0	500.0	500.0	500.0	1.0	1.0	-92.57	-4.0	-89.3	89.4	87.4	2.02	44.205		
600.0	600.0	600.0	600.0	1.2	1.2	-92.57	-4.0	-89.3	89.4	87.0	2.47	36.168		
700.0	700.0	700.0	700.0	1.5	1.5	-92.57	-4.0	-89.3	89.4	86.5	2.92	30.604		
800.0	800.0	800.0	800.0	1.7	1.7	-92.57	-4.0	-89.3	89.4	86.1	3.37	26.523		
900.0	900.0	900.0	900.0	1.9	1.9	-92.57	-4.0	-89.3	89.4	85.6	3.82	23.403		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-92.57	-4.0	-89.3	89.4	85.2	4.27	20.939		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-92.57	-4.0	-89.3	89.4	84.7	4.72	18.945		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-92.57	-4.0	-89.3	89.4	84.3	5.17	17.298		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-92.57	-4.0	-89.3	89.4	83.8	5.62	15.914		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-92.57	-4.0	-89.3	89.4	83.4	6.07	14.735		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-92.57	-4.0	-89.3	89.4	82.9	6.52	13.719		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-92.57	-4.0	-89.3	89.4	82.5	6.97	12.834		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-92.57	-4.0	-89.3	89.4	82.0	7.42	12.056		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-92.57	-4.0	-89.3	89.4	81.6	7.87	11.367		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-92.57	-4.0	-89.3	89.4	81.1	8.32	10.753		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-92.57	-4.0	-89.3	89.4	80.7	8.77	10.201		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-92.57	-4.0	-89.3	89.4	80.2	9.22	9.704		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-92.57	-4.0	-89.3	89.4	79.8	9.66	9.252		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-92.57	-4.0	-89.3	89.4	79.3	10.11	8.841		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-92.57	-4.0	-89.3	89.4	78.9	10.56	8.465		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-92.57	-4.0	-89.3	89.4	78.4	11.01	8.119		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-92.57	-4.0	-89.3	89.4	78.0	11.46	7.801		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-92.57	-4.0	-89.3	89.4	77.5	11.91	7.507		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-92.57	-4.0	-89.3	89.4	77.1	12.36	7.234		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-92.57	-4.0	-89.3	89.4	76.6	12.81	6.980		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-92.57	-4.0	-89.3	89.4	76.2	13.26	6.743		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-92.57	-4.0	-89.3	89.4	75.7	13.71	6.522 CC, ES		
3,200.0	3,200.0	3,198.8	3,198.7	7.1	7.0	-94.14	-6.5	-89.8	90.1	76.0	14.13	6.376		
3,300.0	3,300.0	3,297.0	3,296.7	7.3	7.2	-98.69	-14.0	-91.4	92.5	78.0	14.52	6.369		
3,400.0	3,400.0	3,394.3	3,393.1	7.5	7.4	-105.58	-26.2	-93.9	97.7	82.8	14.92	6.549		
3,500.0	3,500.0	3,490.0	3,487.3	7.8	7.6	-113.79	-42.9	-97.3	107.1	91.7	15.31	6.991		
3,600.0	3,600.0	3,583.7	3,578.6	8.0	7.8	-122.12	-63.7	-101.5	121.7	106.0	15.71	7.749		
3,700.0	3,700.0	3,675.2	3,666.5	8.2	8.0	-129.64	-88.2	-106.5	142.3	126.2	16.11	8.834		
3,800.0	3,800.0	3,764.0	3,750.7	8.4	8.3	-135.96	-116.0	-112.2	168.7	152.2	16.51	10.219		
3,900.0	3,900.0	3,849.9	3,830.8	8.7	8.6	-141.05	-146.4	-118.4	200.6	183.7	16.92	11.658		
4,000.0	4,000.0	3,932.7	3,906.6	8.9	8.9	-145.08	-179.1	-125.0	237.5	220.2	17.34	13.703		
4,100.0	4,100.0	4,012.4	3,978.0	9.1	9.3	-148.27	-213.5	-132.0	279.1	261.3	17.77	15.707		
4,200.0	4,200.0	4,088.7	4,045.1	9.3	9.7	-150.79	-249.2	-139.3	324.8	306.6	18.22	17.831		
4,300.0	4,300.0	4,172.5	4,117.7	9.6	10.2	-153.04	-290.4	-147.7	373.4	354.7	18.71	19.953		
4,400.0	4,400.0	4,259.0	4,192.5	9.8	10.8	-154.84	-333.0	-156.4	422.4	403.1	19.24	21.952		
4,500.0	4,500.0	4,345.5	4,267.3	10.0	11.4	-156.27	-375.5	-165.1	471.6	451.8	19.79	23.827		
4,600.0	4,600.0	4,432.0	4,342.1	10.2	12.0	-157.43	-418.0	-173.7	521.0	500.7	20.37	25.580		
4,700.0	4,700.0	4,518.5	4,416.8	10.5	12.7	-158.39	-460.6	-182.4	570.6	549.6	20.97	27.215		
4,800.0	4,800.0	4,605.0	4,491.6	10.7	13.4	-159.20	-503.1	-191.1	620.3	598.7	21.58	28.739		
4,900.0	4,900.0	4,691.4	4,566.4	10.9	14.1	-159.89	-545.7	-199.8	670.0	647.8	22.22	30.158		
5,000.0	5,000.0	4,778.7	4,641.8	11.1	14.8	-159.27	-588.6	-208.5	718.5	696.9	22.61	31.247		
5,100.0	5,099.7	4,867.9	4,719.1	11.3	15.6	-19.49	-632.5	-217.5	762.7	740.6	22.04	34.599		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-162HN
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 11-162HN	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 11-279HN - 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)	Reference Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis 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	5,199.0	4,959.1	4,797.9	11.5	16.3	-19.82	-677.4	-226.6	802.5	780.1	22.45	35.743		
5,300.0	5,297.5	5,052.0	4,878.2	11.7	17.1	-20.26	-723.0	-235.9	838.0	815.1	22.84	36.691		
5,400.0	5,395.0	5,146.2	4,959.7	11.9	18.0	-20.81	-769.4	-245.4	868.9	845.7	23.20	37.451		
5,500.0	5,491.1	5,241.5	5,042.2	12.1	18.8	-21.46	-816.3	-254.9	895.4	871.9	23.54	38.030		
5,600.0	5,585.7	5,337.8	5,125.4	12.4	19.7	-22.23	-863.6	-264.6	917.4	893.6	23.87	38.427		
5,700.0	5,678.5	5,434.6	5,209.1	12.7	20.5	-23.12	-911.3	-274.3	935.0	910.8	24.20	38.634		
5,800.0	5,769.2	5,531.7	5,293.1	13.0	21.4	-24.14	-959.1	-284.0	948.2	923.7	24.54	38.641		
5,900.0	5,857.6	5,629.0	5,377.2	13.5	22.3	-25.30	-1,006.9	-293.8	957.1	932.2	24.91	38.425		
6,000.0	5,944.1	5,726.1	5,461.2	14.0	23.2	-26.62	-1,054.7	-303.5	963.1	937.5	25.55	37.698		
6,100.0	6,030.5	5,823.2	5,545.2	14.6	24.1	-27.95	-1,102.5	-313.3	969.4	943.1	26.32	36.832		
6,200.0	6,116.9	5,920.3	5,629.2	15.2	25.0	-29.26	-1,150.2	-323.0	976.3	949.1	27.15	35.961		
6,300.0	6,203.3	6,017.4	5,713.2	15.9	25.9	-30.55	-1,198.0	-332.7	983.7	955.7	28.04	35.087		
6,400.0	6,289.8	6,114.6	5,797.2	16.6	26.8	-31.83	-1,245.8	-342.5	991.6	962.7	28.98	34.214		
6,500.0	6,376.2	6,211.7	5,881.2	17.4	27.7	-33.08	-1,293.6	-352.2	1,000.1	970.1	29.99	33.346		
6,600.0	6,462.6	6,308.8	5,965.2	18.1	28.6	-34.32	-1,341.3	-361.9	1,009.0	977.9	31.06	32.487		
6,700.0	6,549.0	6,405.9	6,049.1	18.9	29.6	-35.53	-1,389.1	-371.7	1,018.4	986.2	32.19	31.642		
6,800.0	6,635.5	6,503.1	6,133.2	19.7	30.5	-34.03	-1,436.9	-381.4	1,028.3	994.9	33.41	30.781		
6,900.0	6,725.1	6,602.2	6,218.9	20.3	31.4	-11.22	-1,485.7	-391.4	1,037.9	1,003.4	34.55	30.043		
7,000.0	6,816.0	6,700.4	6,303.8	20.7	32.3	16.40	-1,534.0	-401.2	1,046.4	1,011.3	35.14	29.775		
7,100.0	6,903.5	6,792.6	6,383.6	21.0	33.2	37.57	-1,579.4	-410.5	1,054.3	1,019.0	35.33	29.843		
7,200.0	6,983.2	6,874.3	6,454.2	21.1	34.0	50.81	-1,619.5	-418.7	1,063.4	1,028.0	35.41	30.026		
7,300.0	7,050.9	6,941.1	6,512.0	21.1	34.6	58.63	-1,652.4	-425.4	1,075.9	1,040.3	35.66	30.173		
7,400.0	7,103.3	6,989.6	6,554.0	21.1	35.1	62.37	-1,676.3	-430.2	1,094.2	1,058.1	36.13	30.287		
7,500.0	7,137.6	7,017.4	6,578.0	20.9	35.4	62.48	-1,690.0	-433.0	1,119.5	1,082.9	36.66	30.539		
7,600.0	7,152.0	7,023.1	6,582.9	20.7	35.4	59.17	-1,692.7	-433.6	1,151.7	1,114.8	36.85	31.254		
7,700.0	7,152.4	7,013.3	6,574.5	20.5	35.3	57.68	-1,687.9	-432.6	1,190.0	1,152.4	37.58	31.669		
7,800.0	7,152.4	7,003.1	6,565.6	22.1	35.2	57.14	-1,682.9	-431.6	1,235.1	1,196.4	38.74	31.886		
7,900.0	7,152.4	8,207.1	7,152.4	23.9	40.8	90.00	-2,015.1	264.7	1,243.0	1,194.5	48.44	25.659		
8,000.0	7,152.4	8,307.1	7,152.4	25.9	41.3	90.00	-2,014.9	364.7	1,243.1	1,190.9	52.16	23.833		
8,100.0	7,152.4	8,407.1	7,152.4	28.1	41.8	90.00	-2,014.6	464.7	1,243.2	1,187.0	56.19	22.126		
8,200.0	7,152.4	8,507.1	7,152.4	30.3	42.6	90.00	-2,014.4	564.7	1,243.3	1,182.8	60.47	20.561		
8,300.0	7,152.4	8,607.1	7,152.4	32.6	43.5	90.00	-2,014.2	664.7	1,243.4	1,178.5	64.95	19.143		
8,400.0	7,152.4	8,707.1	7,152.4	35.0	44.7	90.00	-2,014.0	764.7	1,243.6	1,173.9	69.60	17.867		
8,500.0	7,152.4	8,807.1	7,152.4	37.4	46.1	90.00	-2,013.8	864.7	1,243.7	1,169.3	74.38	16.720		
8,600.0	7,152.4	8,907.1	7,152.4	39.9	47.6	90.00	-2,013.5	964.7	1,243.8	1,164.5	79.27	15.690		
8,700.0	7,152.4	9,007.1	7,152.4	42.4	49.4	90.00	-2,013.3	1,064.7	1,243.9	1,159.6	84.25	14.764		
8,800.0	7,152.4	9,107.1	7,152.4	45.0	51.3	90.00	-2,013.1	1,164.7	1,244.0	1,154.7	89.30	13.930		
8,900.0	7,152.4	9,207.1	7,152.4	47.5	53.3	90.00	-2,012.9	1,264.7	1,244.1	1,149.7	94.42	13.177		
9,000.0	7,152.4	9,307.1	7,152.4	50.1	55.4	90.00	-2,012.7	1,364.7	1,244.2	1,144.7	99.59	12.494		
9,100.0	7,152.4	9,407.1	7,152.4	52.8	57.6	90.00	-2,012.4	1,464.7	1,244.4	1,139.6	104.81	11.873		
9,200.0	7,152.4	9,507.1	7,152.4	55.4	59.9	90.00	-2,012.2	1,564.7	1,244.5	1,134.4	110.06	11.307		
9,300.0	7,152.4	9,607.1	7,152.4	58.0	62.3	90.00	-2,012.0	1,664.7	1,244.6	1,129.2	115.35	10.790		
9,400.0	7,152.4	9,707.1	7,152.4	60.7	64.7	90.00	-2,011.8	1,764.7	1,244.7	1,124.0	120.66	10.316		
9,500.0	7,152.4	9,807.1	7,152.4	63.4	67.1	90.00	-2,011.6	1,864.7	1,244.8	1,118.8	126.01	9.879		
9,600.0	7,152.4	9,907.1	7,152.4	66.1	69.6	90.00	-2,011.3	1,964.7	1,244.9	1,113.6	131.37	9.477		
9,700.0	7,152.4	10,007.1	7,152.4	68.8	72.1	90.00	-2,011.1	2,064.7	1,245.1	1,108.3	136.75	9.104		
9,800.0	7,152.4	10,107.1	7,152.4	71.5	74.6	90.00	-2,010.9	2,164.7	1,245.2	1,103.0	142.16	8.759		
9,900.0	7,152.4	10,207.1	7,152.4	74.2	77.2	90.00	-2,010.7	2,264.7	1,245.3	1,097.7	147.57	8.438		
10,000.0	7,152.4	10,307.1	7,152.4	76.9	79.7	90.00	-2,010.5	2,364.7	1,245.4	1,092.4	153.00	8.140		
10,100.0	7,152.4	10,407.1	7,152.4	79.6	82.3	90.00	-2,010.3	2,464.7	1,245.5	1,087.1	158.45	7.861		
10,200.0	7,152.4	10,507.1	7,152.4	82.4	84.9	90.00	-2,010.0	2,564.7	1,245.6	1,081.7	163.90	7.600		
10,300.0	7,152.4	10,607.1	7,152.4	85.1	87.6	90.00	-2,009.8	2,664.7	1,245.8	1,076.4	169.37	7.355		

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 11-162HN
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 11-162HN	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 11-279HN - Wellbore #1 - Plan #1 (12-10-13)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
10,400.0	7,152.4	10,707.1	7,152.4	87.8	90.2	90.00	-2,009.6	2,764.7	1,245.9	1,071.0	174.84	7.126		
10,500.0	7,152.4	10,807.1	7,152.4	90.6	92.8	90.00	-2,009.4	2,864.7	1,246.0	1,065.7	180.32	6.910		
10,600.0	7,152.4	10,907.1	7,152.4	93.3	95.5	90.00	-2,009.2	2,964.7	1,246.1	1,060.3	185.81	6.706		
10,700.0	7,152.4	11,007.1	7,152.4	96.1	98.1	90.00	-2,008.9	3,064.7	1,246.2	1,054.9	191.31	6.514		
10,800.0	7,152.4	11,107.1	7,152.4	98.8	100.8	90.00	-2,008.7	3,164.7	1,246.3	1,049.5	196.82	6.333		
10,900.0	7,152.4	11,207.1	7,152.4	101.6	103.5	90.00	-2,008.5	3,264.7	1,246.5	1,044.1	202.32	6.161		
11,000.0	7,152.4	11,307.1	7,152.4	104.3	106.2	90.00	-2,008.3	3,364.7	1,246.6	1,038.7	207.84	5.998		
11,100.0	7,152.4	11,407.1	7,152.4	107.1	108.9	90.00	-2,008.1	3,464.7	1,246.7	1,033.3	213.36	5.843		
11,200.0	7,152.4	11,507.1	7,152.4	109.9	111.6	90.00	-2,007.8	3,564.7	1,246.8	1,027.9	218.88	5.696		
11,300.0	7,152.4	11,607.1	7,152.4	112.6	114.3	90.00	-2,007.6	3,664.7	1,246.9	1,022.5	224.41	5.556		
11,400.0	7,152.4	11,707.1	7,152.4	115.4	117.0	90.00	-2,007.4	3,764.7	1,247.0	1,017.1	229.94	5.423		
11,500.0	7,152.4	11,807.1	7,152.4	118.1	119.7	90.00	-2,007.2	3,864.7	1,247.2	1,011.7	235.48	5.296		
11,600.0	7,152.4	11,907.1	7,152.4	120.9	122.4	90.00	-2,007.0	3,964.7	1,247.3	1,006.2	241.02	5.175		
11,700.0	7,152.4	12,007.1	7,152.4	123.7	125.1	90.00	-2,006.8	4,064.7	1,247.4	1,000.8	246.56	5.059		
11,800.0	7,152.4	12,107.1	7,152.4	126.5	127.9	90.00	-2,006.5	4,164.7	1,247.5	995.4	252.11	4.948		
11,900.0	7,152.4	12,207.1	7,152.4	129.2	130.5	90.00	-2,006.3	4,264.7	1,247.6	990.0	257.59	4.843		
11,931.3	7,152.4	12,238.5	7,152.4	129.8	131.1	90.00	-2,006.2	4,296.0	1,247.7	989.0	258.70	4.823		
11,974.5	7,152.4	12,273.0	7,152.4	130.6	131.8	90.00	-2,006.2	4,330.5	1,247.7	987.7	260.08	4.798 SF		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-162HN
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 11-162HN	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

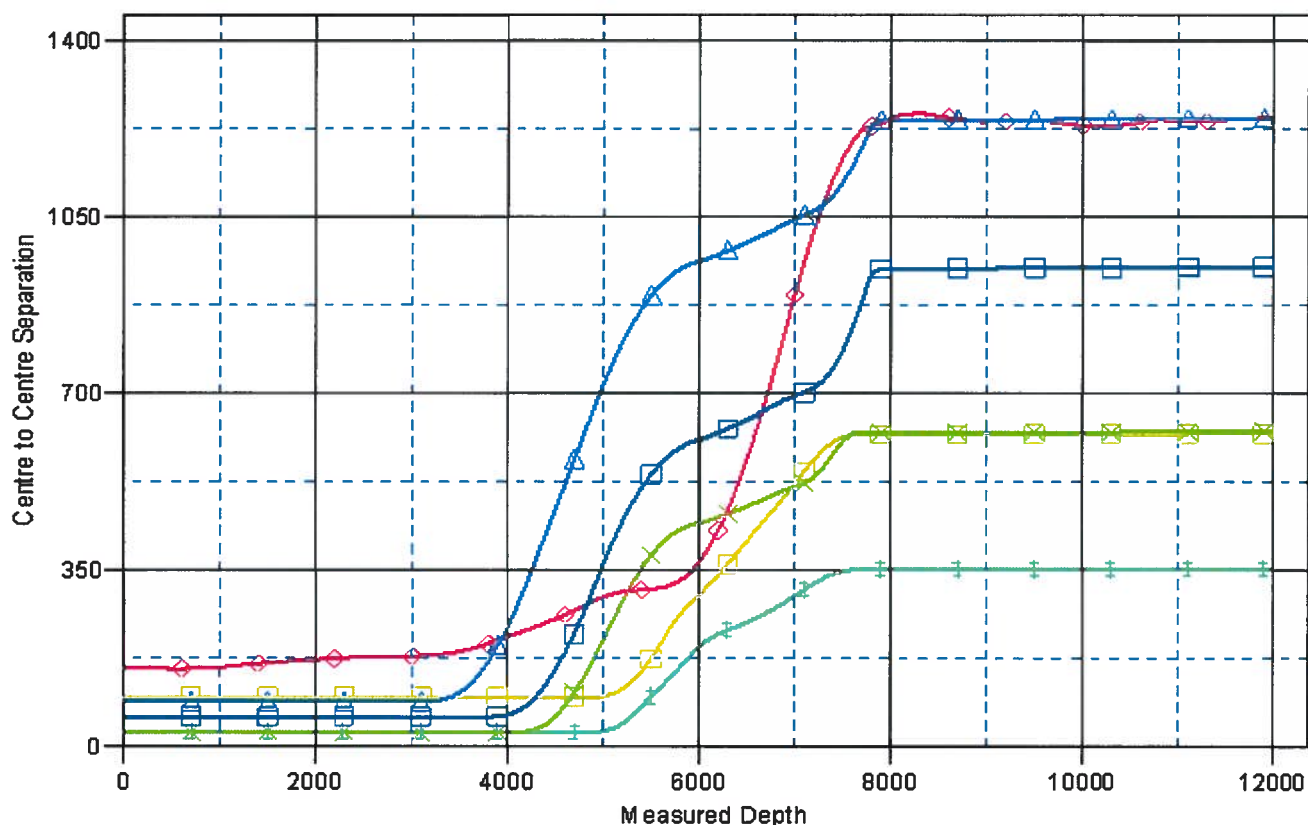
Central Meridian is -105.500000 °

Coordinates are relative to: Postle LC 11-162HN

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

11-159HC, Wellbore #1, Plan #1 (12-10-13) VD ◆ Postle LC 11-4HN, Wellbore #1, Wellbore #1 VD ■ Postle LC 11-259HC, Wellbore #1, Plan #1 (12-10-13) VD × Postle LC 11-239HN, Wellbore #1, Plan #1 (12-10-13) VD × Postle LC 11-279HN, Wellbore #1, Plan #1 (12-10-13) VD △

Company:	Great Western	Local Co-ordinate Reference:	Well Postle LC 11-162HN
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 11-162HN	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

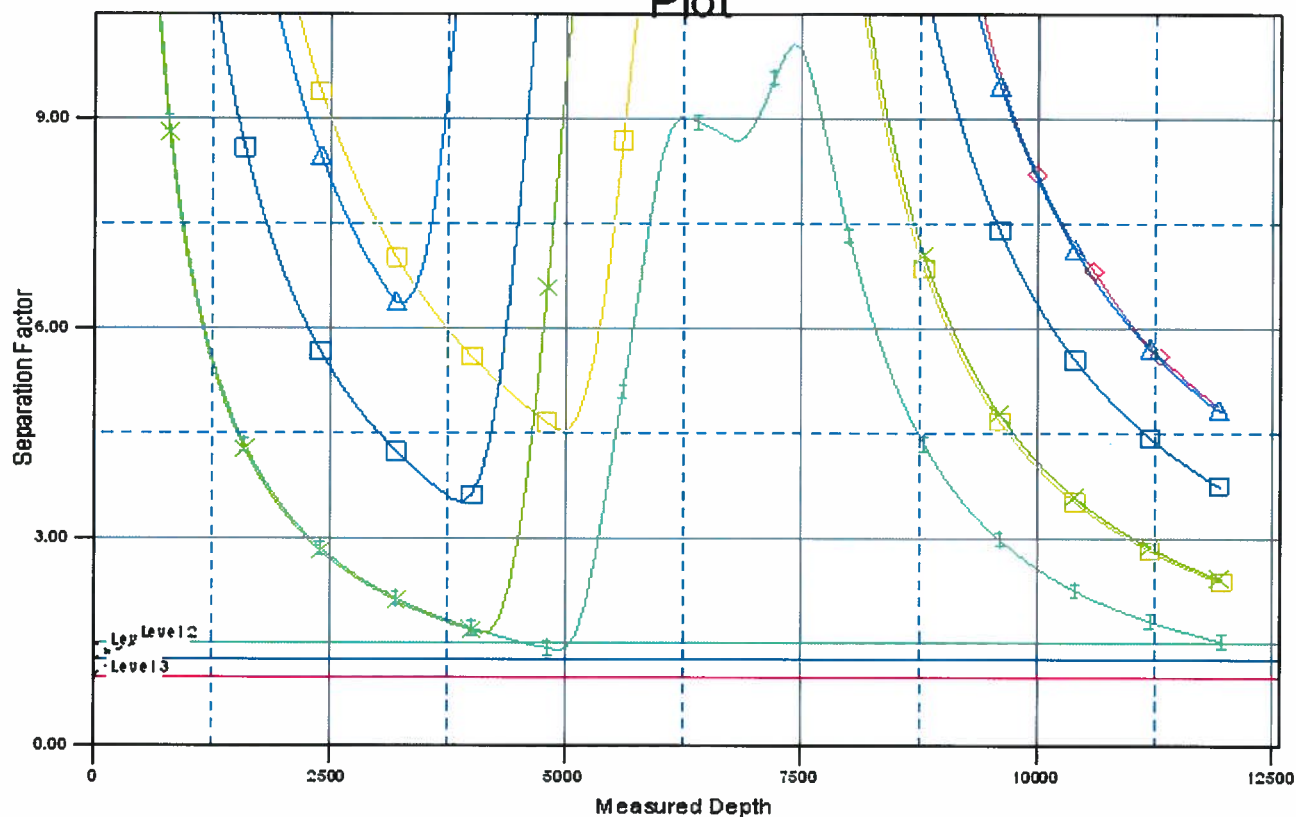
Central Meridian is -105.500000 °

Coordinates are relative to: Postle LC 11-162HN

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

11-169HC, Wellbore #1, Plan #1 (12-10-13) V8 ◆ Postle LC 11-4HN, Wellbore #1, Wellbore #1 V0 □ Postle LC 11-259HC, Wellbore #1, Plan #1 (12-10-13) V8 x Postle LC 11-239HN, Wellbore #1, Plan #1 (12-10-13) V8 △ Postle LC 11-279HN, Wellbore #1, Plan #1 (12-10-13) V8