Great Western

Well Name: PostleIC 11-002HN

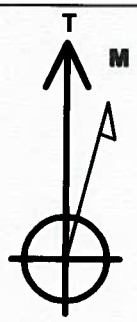
Surface Location: Postle West Pad Sec.11-T3N-R68W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4976.9

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1332145.01	3145606.20	40.243961	-104.978394	

RKB - 16.5' WELL @ 4993.4ft (RKB - 16.5')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1460'FNL & 388'FWL	1.0	0.0	0.0	Point
BHL 1'FNL & 470'FEL	7152.4	1480.9	4442.1	Point
Entry Pt. 1'FNL & 460'FWL	7152.4	1459.4	65.9	Point



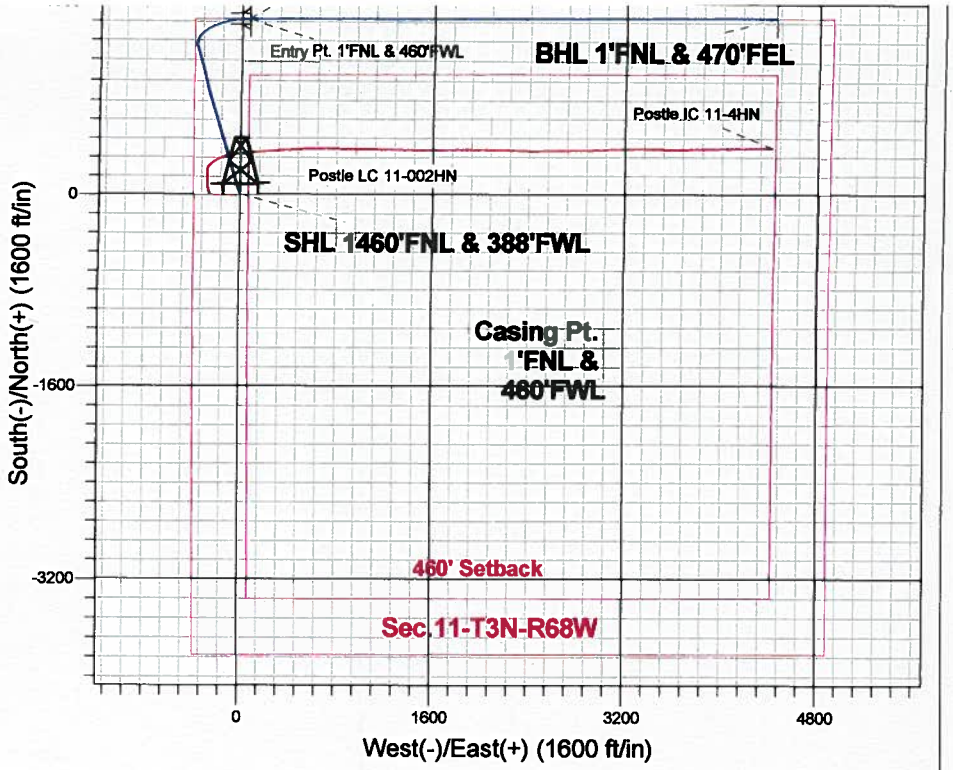
Azimuths to True North
Magnetic North: 8.63°

Magnetic Field
Strength: 52763.4snT
Dip Angle: 66.80°
Date: 12/10/2013
Model: IGRF2010

Postle West Pad Sec.11-T3N-R68W
PostleIC 11-002HN
Plan #1 (12-10-13)
7:38, December 12 2013

ANNOTATIONS

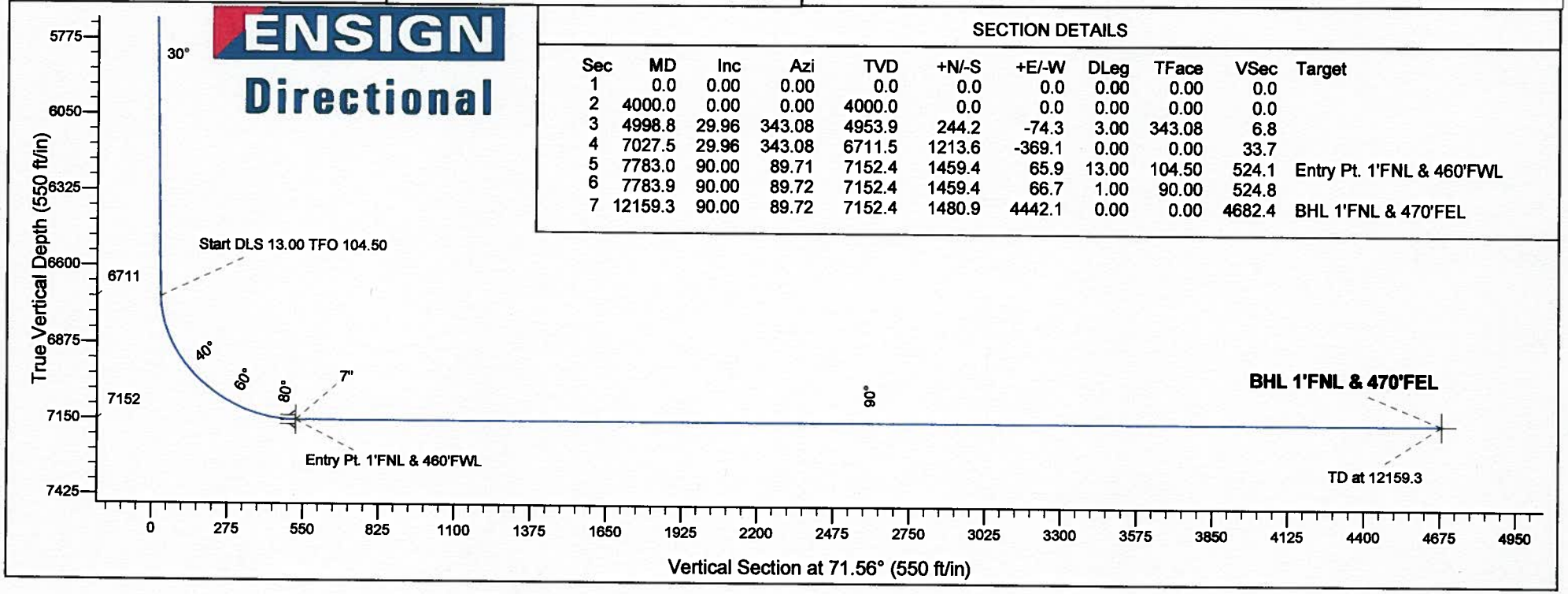
TVD	MD	Annotation
4000.0	4000.0	KOP - Start Build 3.00
6711.4	7027.5	Start DLS 13.00 TFO 104.50
7152.4	12159.3	TD at 12159.3



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	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4998.8	29.96	343.08	4953.9	244.2	-74.3	3.00	343.08	6.8	
4	7027.5	29.96	343.08	6711.5	1213.6	-369.1	0.00	0.00	33.7	
5	7783.0	90.00	89.71	7152.4	1459.4	65.9	13.00	104.50	524.1	Entry Pt. 1'FNL & 460'FWL
6	7783.9	90.00	89.72	7152.4	1459.4	66.7	1.00	90.00	524.8	
7	12159.3	90.00	89.72	7152.4	1480.9	4442.1	0.00	0.00	4682.4	BHL 1'FNL & 470'FEL



ENSIGN
Directional

Great Western

SEC.11-T3N-R68W
Postle West Pad Sec.11-T3N-R68W
PostleIC 11-002HN

Wellbore #1

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

Standard Planning Report

12 December, 2013

Database:	Landmark	**Local Co-ordinate Reference:**	Well PostleIC 11-002HN
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 11-002HN	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-10-13)		

Project SEC.11-T3N-R68W, Weld County, CO

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site Postle West Pad Sec.11-T3N-R68W

Site Position:		**Northing:**	1,332,143.74 ft	**Latitude:**	40.243958
From:	Lat/Long	**Easting:**	3,145,575.78 ft	**Longitude:**	-104.978503
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.34 °

Well PostleIC 11-002HN

Well Position	**+N/-S**	1.1 ft	**Northing:**	1,332,145.01 ft	**Latitude:**	40.243961
	+E/-W	30.4 ft	**Easting:**	3,145,606.20 ft	**Longitude:**	-104.978394
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	71.56

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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,998.8	29.96	343.08	4,953.9	244.2	-74.3	3.00	3.00	0.00	343.08	
7,027.5	29.96	343.08	6,711.5	1,213.6	-369.1	0.00	0.00	0.00	0.00	
7,783.0	90.00	89.71	7,152.4	1,459.4	65.9	13.00	7.95	14.11	104.50	Entry Pt. 1'FNL & 4
7,783.9	90.00	89.72	7,152.4	1,459.4	66.7	1.00	0.00	1.00	90.00	
12,159.3	90.00	89.72	7,152.4	1,480.9	4,442.1	0.00	0.00	0.00	0.00	BHL 1'FNL & 470'F

Database:	Landmark	**Local Co-ordinate Reference:**	Well Postle 1C 11-002HN
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 1C 11-002HN	**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 1460'FNL & 388'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
KOP - Start Build 3.00									
4,100.0	3.00	343.08	4,100.0	2.5	-0.8	0.1	3.00	3.00	0.00
4,200.0	6.00	343.08	4,199.6	10.0	-3.0	0.3	3.00	3.00	0.00
4,300.0	9.00	343.08	4,298.8	22.5	-6.8	0.6	3.00	3.00	0.00
4,400.0	12.00	343.08	4,397.1	39.9	-12.1	1.1	3.00	3.00	0.00
4,500.0	15.00	343.08	4,494.3	62.3	-18.9	1.7	3.00	3.00	0.00
4,600.0	18.00	343.08	4,590.2	89.4	-27.2	2.5	3.00	3.00	0.00
4,700.0	21.00	343.08	4,684.4	121.4	-36.9	3.4	3.00	3.00	0.00
4,800.0	24.00	343.08	4,776.8	158.0	-48.0	4.4	3.00	3.00	0.00
4,900.0	27.00	343.08	4,867.1	199.2	-60.6	5.5	3.00	3.00	0.00
4,998.8	29.96	343.08	4,953.9	244.2	-74.3	6.8	3.00	3.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Postle 1C 11-002HN
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 1C 11-002HN	**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	29.96	343.08	4,954.9	244.8	-74.5	6.8	0.00	0.00	0.00
5,100.0	29.96	343.08	5,041.6	292.6	-89.0	8.1	0.00	0.00	0.00
5,200.0	29.96	343.08	5,128.2	340.4	-103.5	9.4	0.00	0.00	0.00
5,300.0	29.96	343.08	5,214.8	388.2	-118.0	10.8	0.00	0.00	0.00
5,400.0	29.96	343.08	5,301.5	435.9	-132.6	12.1	0.00	0.00	0.00
5,500.0	29.96	343.08	5,388.1	483.7	-147.1	13.4	0.00	0.00	0.00
5,600.0	29.96	343.08	5,474.7	531.5	-161.6	14.8	0.00	0.00	0.00
5,700.0	29.96	343.08	5,561.4	579.3	-176.2	16.1	0.00	0.00	0.00
5,800.0	29.96	343.08	5,648.0	627.1	-190.7	17.4	0.00	0.00	0.00
5,900.0	29.96	343.08	5,734.6	674.9	-205.2	18.7	0.00	0.00	0.00
6,000.0	29.96	343.08	5,821.3	722.6	-219.8	20.1	0.00	0.00	0.00
6,100.0	29.96	343.08	5,907.9	770.4	-234.3	21.4	0.00	0.00	0.00
6,200.0	29.96	343.08	5,994.5	818.2	-248.8	22.7	0.00	0.00	0.00
6,300.0	29.96	343.08	6,081.2	866.0	-263.4	24.0	0.00	0.00	0.00
6,400.0	29.96	343.08	6,167.8	913.8	-277.9	25.4	0.00	0.00	0.00
6,500.0	29.96	343.08	6,254.4	961.6	-292.4	26.7	0.00	0.00	0.00
6,600.0	29.96	343.08	6,341.1	1,009.3	-307.0	28.0	0.00	0.00	0.00
6,700.0	29.96	343.08	6,427.7	1,057.1	-321.5	29.3	0.00	0.00	0.00
6,800.0	29.96	343.08	6,514.4	1,104.9	-336.0	30.7	0.00	0.00	0.00
6,900.0	29.96	343.08	6,601.0	1,152.7	-350.6	32.0	0.00	0.00	0.00
7,000.0	29.96	343.08	6,687.6	1,200.5	-365.1	33.3	0.00	0.00	0.00
7,027.5	29.96	343.08	6,711.4	1,213.6	-369.1	33.7	0.00	0.00	0.00
Start DLS 13.00 TFO 104.50									
7,100.0	28.94	2.20	6,774.7	1,248.5	-373.7	40.4	12.99	-1.41	26.36
7,200.0	31.94	27.34	6,861.3	1,296.4	-360.6	68.0	13.00	3.00	25.14
7,300.0	38.88	46.46	6,943.0	1,341.7	-325.5	115.5	13.00	6.93	19.12
7,400.0	48.05	59.94	7,015.6	1,382.2	-270.3	180.7	13.00	9.17	13.48
7,500.0	58.38	69.83	7,075.5	1,415.6	-197.9	260.0	13.00	10.33	9.89
7,600.0	69.32	77.67	7,119.6	1,440.4	-111.9	349.4	13.00	10.94	7.85
7,700.0	80.56	84.44	7,145.6	1,455.2	-16.7	444.4	13.00	11.25	6.77
7,783.0	89.99	89.71	7,152.4	1,459.4	65.9	524.1	12.99	11.36	6.34
7" - Entry Pt. 1'FNL & 460'FWL									
7,783.9	90.00	89.72	7,152.4	1,459.4	66.7	524.8	1.54	0.69	1.38
7,800.0	90.00	89.72	7,152.4	1,459.5	82.8	540.2	0.00	0.00	0.00
7,900.0	90.00	89.72	7,152.4	1,460.0	182.8	635.2	0.00	0.00	0.00
8,000.0	90.00	89.72	7,152.4	1,460.5	282.8	730.2	0.00	0.00	0.00
8,100.0	90.00	89.72	7,152.4	1,461.0	382.8	825.2	0.00	0.00	0.00
8,200.0	90.00	89.72	7,152.4	1,461.5	482.8	920.3	0.00	0.00	0.00
8,300.0	90.00	89.72	7,152.4	1,461.9	582.8	1,015.3	0.00	0.00	0.00
8,400.0	90.00	89.72	7,152.4	1,462.4	682.8	1,110.3	0.00	0.00	0.00
8,500.0	90.00	89.72	7,152.4	1,462.9	782.8	1,205.3	0.00	0.00	0.00
8,600.0	90.00	89.72	7,152.4	1,463.4	882.8	1,300.3	0.00	0.00	0.00
8,700.0	90.00	89.72	7,152.4	1,463.9	982.8	1,395.4	0.00	0.00	0.00
8,800.0	90.00	89.72	7,152.4	1,464.4	1,082.8	1,490.4	0.00	0.00	0.00
8,900.0	90.00	89.72	7,152.4	1,464.9	1,182.8	1,585.4	0.00	0.00	0.00
9,000.0	90.00	89.72	7,152.4	1,465.4	1,282.8	1,680.4	0.00	0.00	0.00
9,100.0	90.00	89.72	7,152.4	1,465.9	1,382.8	1,775.5	0.00	0.00	0.00
9,200.0	90.00	89.72	7,152.4	1,466.4	1,482.8	1,870.5	0.00	0.00	0.00
9,300.0	90.00	89.72	7,152.4	1,466.9	1,582.8	1,965.5	0.00	0.00	0.00
9,400.0	90.00	89.72	7,152.4	1,467.4	1,682.8	2,060.5	0.00	0.00	0.00
9,500.0	90.00	89.72	7,152.4	1,467.8	1,782.8	2,155.5	0.00	0.00	0.00
9,600.0	90.00	89.72	7,152.4	1,468.3	1,882.8	2,250.6	0.00	0.00	0.00
9,700.0	90.00	89.72	7,152.4	1,468.8	1,982.8	2,345.6	0.00	0.00	0.00
9,800.0	90.00	89.72	7,152.4	1,469.3	2,082.8	2,440.6	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Postle 11-002HN
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Site:	Postle West Pad Sec.11-T3N-R68W	**North Reference:**	True
Well:	Postle 11-002HN	**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)
9,900.0	90.00	89.72	7,152.4	1,469.8	2,182.8	2,535.6	0.00	0.00	0.00
10,000.0	90.00	89.72	7,152.4	1,470.3	2,282.8	2,630.6	0.00	0.00	0.00
10,100.0	90.00	89.72	7,152.4	1,470.8	2,382.8	2,725.7	0.00	0.00	0.00
10,200.0	90.00	89.72	7,152.4	1,471.3	2,482.8	2,820.7	0.00	0.00	0.00
10,300.0	90.00	89.72	7,152.4	1,471.8	2,582.8	2,915.7	0.00	0.00	0.00
10,400.0	90.00	89.72	7,152.4	1,472.3	2,682.8	3,010.7	0.00	0.00	0.00
10,500.0	90.00	89.72	7,152.4	1,472.8	2,782.8	3,105.7	0.00	0.00	0.00
10,600.0	90.00	89.72	7,152.4	1,473.3	2,882.8	3,200.8	0.00	0.00	0.00
10,700.0	90.00	89.72	7,152.4	1,473.8	2,982.8	3,295.8	0.00	0.00	0.00
10,800.0	90.00	89.72	7,152.4	1,474.2	3,082.8	3,390.8	0.00	0.00	0.00
10,900.0	90.00	89.72	7,152.4	1,474.7	3,182.8	3,485.8	0.00	0.00	0.00
11,000.0	90.00	89.72	7,152.4	1,475.2	3,282.8	3,580.9	0.00	0.00	0.00
11,100.0	90.00	89.72	7,152.4	1,475.7	3,382.8	3,675.9	0.00	0.00	0.00
11,200.0	90.00	89.72	7,152.4	1,476.2	3,482.8	3,770.9	0.00	0.00	0.00
11,300.0	90.00	89.72	7,152.4	1,476.7	3,582.8	3,865.9	0.00	0.00	0.00
11,400.0	90.00	89.72	7,152.4	1,477.2	3,682.8	3,960.9	0.00	0.00	0.00
11,500.0	90.00	89.72	7,152.4	1,477.7	3,782.8	4,056.0	0.00	0.00	0.00
11,600.0	90.00	89.72	7,152.4	1,478.2	3,882.8	4,151.0	0.00	0.00	0.00
11,700.0	90.00	89.72	7,152.4	1,478.7	3,982.8	4,246.0	0.00	0.00	0.00
11,800.0	90.00	89.72	7,152.4	1,479.2	4,082.8	4,341.0	0.00	0.00	0.00
11,900.0	90.00	89.72	7,152.4	1,479.7	4,182.8	4,436.0	0.00	0.00	0.00
12,000.0	90.00	89.72	7,152.4	1,480.1	4,282.8	4,531.1	0.00	0.00	0.00
12,100.0	90.00	89.72	7,152.4	1,480.6	4,382.8	4,626.1	0.00	0.00	0.00
12,159.3	90.00	89.72	7,152.4	1,480.9	4,442.1	4,682.4	0.00	0.00	0.00
BHL 1'FNL & 470'FEL									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,783.0	7,152.4	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
4,000.0	4,000.0	0.0	0.0	KOP - Start Build 3.00
7,027.5	6,711.4	1,213.6	-369.1	Start DLS 13.00 TFO 104.50
12,159.3	7,152.4	1,480.9	4,442.1	TD at 12159.3

ENSIGN
Directional

Great Western

SEC.11-T3N-R68W
Postle West Pad Sec.11-T3N-R68W
Postle IC 11-002HN

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

Anticollision Report

12 December, 2013

ENSIGN Directional

Anticollision Report

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle IC 11-002HN
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 11-002HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (12-10-13)	**Offset TVD Reference:**	Offset Datum

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

Survey Tool Program **Date** 12/11/2013

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,159.3	Plan #1 (12-10-13) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Postle West Pad Sec.11-T3N-R68W						
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	0.0	2.6	30.4	30.4	9,748.230	CC
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	500.0	502.5	30.7	28.8	16.586	ES
Postle IC 11-4HN - Wellbore #1 - Wellbore #1	12,159.3	11,715.0	1,085.9	826.3	4.183	SF
Postle IC 11-039HN - Wellbore #1 - Plan #1 (12-10-13)	4,000.0	4,000.0	29.4	11.6	1.655	CC, ES
Postle IC 11-039HN - Wellbore #1 - Plan #1 (12-10-13)	4,100.0	4,100.0	30.1	11.9	1.652	SF
Postle IC 11-042HC - Wellbore #1 - Plan #1 (12-10-13)	4,000.0	4,000.0	59.5	41.8	3.353	CC, ES
Postle IC 11-042HC - Wellbore #1 - Plan #1 (12-10-13)	12,159.3	12,131.8	798.4	538.9	3.076	SF
Postle IC 11-239HN - Wellbore #1 - Plan #1 (12-10-13)	4,000.0	4,000.0	116.5	98.8	6.564	CC, ES
Postle IC 11-239HN - Wellbore #1 - Plan #1 (12-10-13)	4,100.0	4,100.0	119.1	100.9	6.547	SF
Postle IC 11-259HC - Wellbore #1 - Plan #1 (12-10-13)	3,800.0	3,800.0	103.7	86.9	6.154	CC, ES
Postle IC 11-259HC - Wellbore #1 - Plan #1 (12-10-13)	3,900.0	3,895.6	105.8	88.6	6.128	SF
Postle IC 11-279HN - Wellbore #1 - Plan #1 (12-10-13)	3,100.0	3,100.0	99.2	85.5	7.235	CC, ES
Postle IC 11-279HN - Wellbore #1 - Plan #1 (12-10-13)	3,200.0	3,195.1	101.6	87.5	7.195	SF

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-4HN - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.0ft

Survey Program: 229-MWD — **Offset Well Error:** 0.0ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	2.6	2.6	0.0	0.0	-92.06	-1.1	-30.4	30.4	30.4	0.00	9,748.230	CC
100.0	100.0	102.6	102.6	0.1	0.1	-92.21	-1.2	-30.5	30.5	30.3	0.23	133.705	
200.0	200.0	202.6	202.6	0.3	0.2	-92.61	-1.4	-30.5	30.6	30.0	0.57	54.081	
300.0	300.0	302.6	302.6	0.6	0.4	-93.21	-1.7	-30.6	30.6	29.7	0.97	31.455	
400.0	400.0	402.6	402.6	0.8	0.6	-93.95	-2.1	-30.5	30.6	29.2	1.41	21.672	
433.3	433.3	435.9	435.9	0.9	0.7	-94.34	-2.3	-30.5	30.6	29.0	1.56	19.633	
500.0	500.0	502.5	502.5	1.0	0.8	-95.20	-2.8	-30.6	30.7	28.8	1.85	16.586	ES
600.0	600.0	602.3	602.3	1.2	1.1	-96.45	-3.5	-31.1	31.3	29.1	2.29	13.694	
700.0	700.0	702.3	702.3	1.5	1.3	-97.49	-4.2	-32.1	32.4	29.7	2.72	11.909	
800.0	800.0	802.3	802.3	1.7	1.5	-98.21	-4.8	-33.1	33.4	30.2	3.15	10.615	
900.0	900.0	902.1	902.1	1.9	1.7	-98.68	-5.2	-34.2	34.6	31.0	3.58	9.671	
1,000.0	1,000.0	1,001.8	1,001.8	2.1	1.9	-99.17	-5.8	-36.0	36.5	32.5	4.02	9.081	
1,100.0	1,100.0	1,101.7	1,101.6	2.4	2.1	-99.44	-6.4	-38.4	39.0	34.5	4.46	8.738	
1,200.0	1,200.0	1,201.7	1,201.6	2.6	2.3	-98.76	-6.3	-41.1	41.6	36.7	4.89	8.499	
1,300.0	1,300.0	1,301.9	1,301.8	2.8	2.5	-97.87	-6.0	-43.3	43.7	38.4	5.32	8.218	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle IC 11-002HN
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 11-002HN	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1,400.0	1,400.0	1,402.0	1,401.8	3.0	2.7	-97.01	-5.6	-45.2	45.5	39.8	5.74	7.922	
1,500.0	1,500.0	1,502.4	1,502.2	3.3	2.9	-95.63	-4.6	-46.7	46.9	40.7	6.18	7.594	
1,600.0	1,600.0	1,602.5	1,602.3	3.5	3.1	-93.68	-3.1	-47.4	47.5	40.9	6.61	7.195	
1,700.0	1,700.0	1,702.6	1,702.4	3.7	3.3	-92.53	-2.1	-48.1	48.1	41.1	7.04	6.837	
1,800.0	1,800.0	1,802.3	1,802.1	3.9	3.6	-91.68	-1.4	-48.8	48.8	41.4	7.47	6.532	
1,900.0	1,900.0	1,902.2	1,902.0	4.2	3.8	-90.71	-0.6	-49.9	49.9	42.0	7.91	6.311	
2,000.0	2,000.0	2,002.6	2,002.4	4.4	4.0	-89.98	0.0	-50.7	50.7	42.3	8.35	6.074	
2,100.0	2,100.0	2,102.6	2,102.3	4.6	4.2	-88.96	0.9	-51.1	51.1	42.3	8.78	5.822	
2,200.0	2,200.0	2,202.3	2,202.1	4.8	4.4	-87.80	2.0	-51.8	51.9	42.7	9.21	5.632	
2,300.0	2,300.0	2,302.3	2,302.0	5.1	4.6	-87.05	2.7	-52.8	52.8	43.2	9.65	5.476	
2,400.0	2,400.0	2,401.9	2,401.6	5.3	4.8	-87.38	2.5	-54.4	54.4	44.4	10.08	5.398	
2,500.0	2,500.0	2,502.2	2,501.9	5.5	5.0	-88.11	1.8	-55.9	56.0	45.4	10.52	5.320	
2,600.0	2,600.0	2,602.5	2,602.2	5.7	5.2	-88.67	1.3	-56.8	56.8	45.9	10.95	5.188	
2,700.0	2,700.0	2,702.6	2,702.3	6.0	5.4	-89.21	0.8	-57.3	57.3	45.9	11.38	5.035	
2,800.0	2,800.0	2,802.6	2,802.3	6.2	5.7	-89.93	0.1	-57.8	57.8	46.0	11.82	4.889	
2,900.0	2,900.0	2,902.4	2,902.1	6.4	5.9	-90.76	-0.8	-58.4	58.5	46.2	12.26	4.769	
3,000.0	3,000.0	3,002.1	3,001.8	6.6	6.1	-91.64	-1.7	-59.5	59.5	46.8	12.69	4.687	
3,100.0	3,100.0	3,101.8	3,101.5	6.9	6.3	-92.14	-2.3	-61.1	61.1	48.0	13.13	4.658	
3,200.0	3,200.0	3,201.6	3,201.3	7.1	6.5	-92.56	-2.8	-63.0	63.1	49.5	13.56	4.652	
3,300.0	3,300.0	3,301.1	3,300.7	7.3	6.7	-93.25	-3.7	-65.4	65.5	51.5	14.00	4.681	
3,400.0	3,400.0	3,400.7	3,400.3	7.5	6.9	-93.56	-4.3	-68.5	68.7	54.3	14.44	4.759	
3,500.0	3,500.0	3,499.6	3,499.1	7.8	7.1	-93.70	-4.7	-72.4	72.7	57.8	14.88	4.885	
3,600.0	3,600.0	3,599.2	3,598.6	8.0	7.4	-93.24	-4.4	-77.6	77.8	62.5	15.31	5.082	
3,700.0	3,700.0	3,698.7	3,697.9	8.2	7.6	-92.67	-3.9	-83.0	83.2	67.4	15.75	5.282	
3,800.0	3,800.0	3,797.5	3,796.5	8.4	7.8	-92.17	-3.4	-89.1	89.4	73.2	16.19	5.521	
3,900.0	3,900.0	3,896.3	3,895.1	8.7	8.0	-91.69	-2.8	-96.3	96.7	80.0	16.63	5.813	
4,000.0	4,000.0	3,996.0	3,994.4	8.9	8.3	-91.24	-2.2	-104.1	104.5	87.4	17.07	6.120	
4,100.0	4,100.0	4,096.8	4,095.0	9.1	8.5	-75.15	-1.8	-111.5	111.1	93.6	17.49	6.351	
4,200.0	4,199.6	4,195.9	4,193.9	9.3	8.7	-78.60	-1.9	-118.4	116.3	98.4	17.92	6.490	
4,300.0	4,298.8	4,294.0	4,291.7	9.6	8.9	-84.13	-2.1	-125.9	122.0	103.6	18.36	6.645	
4,400.0	4,397.1	4,391.8	4,389.1	9.8	9.2	-91.22	-2.4	-134.1	129.5	110.7	18.81	6.884	
4,500.0	4,494.3	4,489.0	4,486.0	10.0	9.4	-99.34	-2.7	-142.4	139.9	120.7	19.27	7.260	
4,600.0	4,590.2	4,584.4	4,581.0	10.3	9.6	-107.59	-2.9	-151.0	154.9	135.2	19.72	7.855	
4,700.0	4,684.4	4,679.5	4,675.6	10.6	9.9	-115.46	-2.7	-160.1	175.2	155.1	20.14	8.701	
4,800.0	4,776.8	4,772.8	4,768.5	11.0	10.1	-122.52	-2.4	-169.0	201.2	180.7	20.49	9.817	
4,900.0	4,867.1	4,864.1	4,859.4	11.4	10.3	-128.66	-2.0	-177.7	233.0	212.2	20.78	11.213	
5,000.0	4,954.9	4,953.6	4,948.5	11.9	10.5	-133.88	-1.6	-186.0	270.6	249.6	21.01	12.884	
5,100.0	5,041.6	5,041.8	5,036.3	12.5	10.7	-138.91	-1.2	-193.9	312.0	290.7	21.38	14.594	
5,200.0	5,128.2	5,130.2	5,124.4	13.2	10.9	-142.85	-0.7	-201.5	355.0	333.2	21.79	16.289	
5,300.0	5,214.8	5,218.4	5,212.4	13.8	11.2	-146.00	-0.2	-209.0	398.9	376.6	22.23	17.942	
5,400.0	5,301.5	5,306.7	5,300.3	14.5	11.4	-148.58	0.4	-216.0	443.5	420.8	22.69	19.548	
5,500.0	5,388.1	5,395.5	5,388.9	15.3	11.6	-150.78	0.9	-222.6	488.6	465.5	23.16	21.099	
5,600.0	5,474.7	5,482.5	5,475.6	16.0	11.8	-152.64	1.5	-228.4	534.2	510.5	23.64	22.597	
5,700.0	5,561.4	5,569.6	5,562.6	16.8	12.0	-154.31	1.8	-233.6	580.3	556.2	24.12	24.058	
5,800.0	5,648.0	5,658.6	5,651.4	17.6	12.2	-155.77	2.2	-238.8	626.7	602.1	24.62	25.457	
5,900.0	5,734.6	5,749.7	5,742.4	18.5	12.4	-157.06	2.9	-244.1	673.1	648.0	25.12	26.790	
6,000.0	5,821.3	5,844.7	5,837.3	19.3	12.6	-158.32	4.4	-248.5	718.9	693.3	25.63	28.049	
6,100.0	5,907.9	5,945.3	5,937.8	20.2	12.8	-159.61	6.9	-251.6	764.2	738.0	26.13	29.247	
6,200.0	5,994.5	6,050.1	6,042.4	21.0	13.0	-160.91	12.3	-253.2	807.2	780.5	26.62	30.321	
6,300.0	6,081.2	6,232.3	6,223.2	21.9	13.4	-162.54	33.2	-260.1	844.4	817.1	27.24	31.001	
6,400.0	6,167.8	6,525.8	6,503.0	22.8	14.2	-164.83	117.1	-270.4	863.4	835.3	28.01	30.820	
6,500.0	6,254.4	6,603.0	6,574.6	23.7	14.4	-165.66	145.9	-268.9	875.7	847.2	28.47	30.752	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle IC 11-002HN
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 11-002HN	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,600.0	6,341.1	6,721.0	6,683.9	24.6	14.8	-166.59	190.5	-271.6	887.4	858.4	29.02	30.576	
6,700.0	6,427.7	6,798.1	6,755.5	25.5	15.0	-167.28	219.0	-271.8	900.4	870.9	29.50	30.519	
6,800.0	6,514.4	6,864.0	6,816.3	26.4	15.2	-168.40	242.5	-263.1	915.8	885.9	29.87	30.655	
6,900.0	6,601.0	6,937.8	6,882.4	27.4	15.4	-170.34	266.8	-241.4	935.1	905.0	30.13	31.040	
7,000.0	6,687.6	7,025.5	6,955.3	28.3	15.6	-173.37	295.2	-202.0	957.3	926.9	30.32	31.575	
7,100.0	6,774.7	7,070.4	6,989.2	29.1	15.6	165.73	309.3	-176.2	982.9	952.1	30.77	31.942	
7,200.0	6,861.3	7,102.0	7,011.8	29.7	15.7	139.39	318.0	-155.9	1,010.5	978.9	31.64	31.937	
7,300.0	6,943.0	7,150.0	7,043.5	30.3	15.8	119.24	329.2	-121.7	1,037.5	1,004.8	32.71	31.720	
7,400.0	7,015.6	7,197.0	7,070.9	30.6	15.8	105.76	338.7	-84.7	1,061.1	1,027.6	33.56	31.616	
7,500.0	7,075.5	7,246.0	7,095.2	30.9	16.0	97.10	346.4	-42.9	1,080.5	1,046.3	34.17	31.620	
7,600.0	7,119.6	7,293.0	7,114.3	31.0	16.2	91.91	351.2	-0.3	1,094.9	1,060.1	34.76	31.502	
7,700.0	7,145.6	7,341.0	7,129.0	31.1	16.5	89.40	354.3	45.3	1,102.9	1,067.2	35.67	30.916	
7,800.0	7,152.4	7,454.3	7,141.7	31.1	17.7	89.31	360.0	157.4	1,102.1	1,064.2	37.87	29.101	
7,900.0	7,152.4	7,559.9	7,140.1	31.1	19.3	89.22	367.5	262.7	1,095.4	1,054.8	40.64	26.952	
8,000.0	7,152.4	7,678.0	7,134.5	31.3	21.3	88.92	378.1	380.2	1,086.9	1,042.8	44.20	24.594	
8,100.0	7,152.4	7,748.6	7,132.4	31.6	22.7	88.80	383.5	450.6	1,079.8	1,032.5	47.32	22.822	
8,200.0	7,152.4	7,822.0	7,130.9	32.2	24.2	88.72	386.9	523.8	1,075.6	1,024.8	50.76	21.190	
8,300.0	7,152.4	7,900.9	7,128.5	33.2	26.0	88.58	388.3	602.7	1,074.2	1,019.6	54.55	19.693	
8,400.0	7,152.4	7,997.2	7,127.4	34.6	28.1	88.53	390.6	699.0	1,072.3	1,013.3	58.92	18.198	
8,433.8	7,152.4	8,020.2	7,127.3	35.2	28.7	88.52	390.9	721.9	1,072.1	1,011.9	60.23	17.800	
8,500.0	7,152.4	8,068.0	7,126.9	36.4	29.8	88.50	390.6	769.8	1,072.7	1,009.9	62.87	17.062	
8,600.0	7,152.4	8,164.6	7,127.1	38.4	32.1	88.51	389.5	866.4	1,074.4	1,006.8	67.57	15.901	
8,700.0	7,152.4	8,238.5	7,128.6	40.6	33.9	88.59	387.5	940.1	1,077.6	1,005.8	71.82	15.004	
8,800.0	7,152.4	8,366.4	7,128.7	42.9	37.1	88.61	383.1	1,068.0	1,081.7	1,004.2	77.52	13.955	
8,900.0	7,152.4	8,464.3	7,127.8	45.2	39.5	88.56	382.2	1,165.9	1,083.2	1,000.6	82.52	13.125	
9,000.0	7,152.4	8,551.0	7,127.9	47.6	41.8	88.57	380.1	1,252.6	1,086.0	998.7	87.32	12.438	
9,100.0	7,152.4	8,671.5	7,126.9	50.1	44.9	88.52	377.4	1,373.0	1,088.9	995.9	93.04	11.704	
9,200.0	7,152.4	8,790.5	7,124.1	52.6	48.0	88.38	378.2	1,492.0	1,088.7	989.9	98.75	11.024	
9,217.4	7,152.4	8,804.1	7,123.9	53.1	48.4	88.36	378.3	1,505.5	1,088.6	989.1	99.57	10.934	
9,300.0	7,152.4	8,877.2	7,122.9	55.2	50.3	88.31	378.2	1,578.6	1,089.1	985.4	103.67	10.506	
9,400.0	7,152.4	9,001.8	7,122.9	57.7	53.7	88.31	379.5	1,703.2	1,088.5	978.9	109.63	9.929	
9,500.0	7,152.4	9,096.2	7,123.3	60.3	56.2	88.33	381.2	1,797.7	1,087.2	972.4	114.82	9.469	
9,600.0	7,152.4	9,189.4	7,123.1	62.9	58.7	88.32	382.3	1,890.8	1,086.5	966.5	119.99	9.055	
9,616.7	7,152.4	9,203.5	7,123.4	63.4	59.1	88.33	382.4	1,904.9	1,086.5	965.7	120.82	8.993	
9,700.0	7,152.4	9,269.6	7,124.3	65.5	60.9	88.38	382.3	1,971.1	1,087.1	962.2	124.85	8.707	
9,800.0	7,152.4	9,365.9	7,124.2	68.2	63.5	88.38	380.7	2,067.3	1,089.2	959.0	130.15	8.369	
9,900.0	7,152.4	9,457.1	7,123.7	70.8	65.9	88.36	379.4	2,158.5	1,091.2	955.9	135.32	8.064	
10,000.0	7,152.4	9,548.9	7,123.5	73.5	68.4	88.35	376.7	2,250.3	1,094.5	954.0	140.53	7.788	
10,100.0	7,152.4	9,657.2	7,120.0	76.2	71.4	88.17	374.0	2,358.5	1,097.6	951.5	146.18	7.509	
10,200.0	7,152.4	9,789.4	7,119.3	78.9	75.0	88.14	372.9	2,490.7	1,099.0	946.5	152.51	7.206	
10,230.0	7,152.4	9,817.0	7,119.1	79.7	75.8	88.13	373.1	2,518.3	1,099.0	944.9	154.08	7.132	
10,300.0	7,152.4	9,878.9	7,118.2	81.6	77.5	88.08	373.2	2,580.1	1,099.2	941.5	157.68	6.971	
10,400.0	7,152.4	9,990.1	7,117.5	84.3	80.5	88.04	373.2	2,691.3	1,099.7	936.3	163.46	6.728	
10,500.0	7,152.4	10,090.6	7,119.2	87.0	83.3	88.13	373.9	2,791.8	1,099.5	930.5	168.97	6.507	
10,600.0	7,152.4	10,236.4	7,119.1	89.7	87.3	88.12	377.7	2,937.5	1,097.5	921.8	175.70	6.246	
10,700.0	7,152.4	10,321.1	7,118.8	92.4	89.6	88.10	381.6	3,022.2	1,093.4	912.7	180.77	6.049	
10,800.0	7,152.4	10,417.0	7,119.0	95.1	92.2	88.11	384.5	3,118.0	1,091.0	904.8	186.15	5.860	
10,900.0	7,152.4	10,503.1	7,118.0	97.8	94.6	88.05	387.0	3,204.0	1,088.6	897.3	191.26	5.692	
10,973.8	7,152.4	10,560.9	7,117.8	99.9	96.2	88.04	387.7	3,261.9	1,088.0	893.1	194.89	5.583	
11,000.0	7,152.4	10,578.0	7,117.9	100.6	96.7	88.04	387.8	3,279.0	1,088.1	892.0	196.08	5.549	
11,100.0	7,152.4	10,677.1	7,117.9	103.3	99.4	88.05	387.2	3,378.0	1,089.2	887.6	201.58	5.403	
11,200.0	7,152.4	10,767.0	7,117.9	106.0	101.9	88.05	386.2	3,468.0	1,090.7	883.9	206.83	5.274	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle IC 11-002HN
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 11-002HN	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
11,300.0	7,152.4	10,870.2	7,118.4	108.8	104.8	88.08	385.5	3,571.2	1,091.9	879.4	212.48	5.139	
11,400.0	7,152.4	10,988.2	7,120.1	111.5	108.0	88.17	385.2	3,689.2	1,092.6	874.1	218.50	5.000	
11,500.0	7,152.4	11,100.6	7,120.8	114.3	111.2	88.21	386.8	3,801.5	1,091.6	867.2	224.38	4.865	
11,600.0	7,152.4	11,207.7	7,118.2	117.0	114.1	88.07	388.6	3,908.6	1,090.5	860.4	230.09	4.739	
11,700.0	7,152.4	11,298.4	7,116.4	119.8	116.6	87.97	390.6	3,999.3	1,088.9	853.5	235.35	4.627	
11,800.0	7,152.4	11,395.9	7,114.0	122.5	119.3	87.84	391.6	4,096.7	1,088.4	847.6	240.79	4.520	
11,900.0	7,152.4	11,500.6	7,112.9	125.3	122.2	87.78	393.0	4,201.3	1,087.7	841.2	246.45	4.413	
12,000.0	7,152.4	11,592.5	7,114.3	128.1	124.8	87.85	394.5	4,293.2	1,086.5	834.7	251.79	4.315	
12,100.0	7,152.4	11,699.8	7,115.2	130.8	127.8	87.90	395.8	4,400.5	1,085.7	828.2	257.55	4.216	
12,127.6	7,152.4	11,715.0	7,115.1	131.6	128.2	87.89	396.1	4,415.7	1,085.5	826.7	258.74	4.195	
12,159.3	7,152.4	11,715.0	7,115.1	132.5	128.2	87.89	396.1	4,415.7	1,085.9	826.3	259.62	4.183	SF

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle IC 11-002HN
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 11-002HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (12-10-13)	**Offset TVD Reference:**	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-039HN - Wellbore #1 - Plan #1 (12-10-13) — Offset Site Error: 0.0ft

Survey Program: 0-MWD — Offset Well Error: 0.0ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	85.74	2.2	29.3	29.4				
100.0	100.0	100.0	100.0	0.1	0.1	85.74	2.2	29.3	29.4	29.2	0.22	130.774	
200.0	200.0	200.0	200.0	0.3	0.3	85.74	2.2	29.3	29.4	28.7	0.67	43.591	
300.0	300.0	300.0	300.0	0.6	0.6	85.74	2.2	29.3	29.4	28.3	1.12	26.155	
400.0	400.0	400.0	400.0	0.8	0.8	85.74	2.2	29.3	29.4	27.8	1.57	18.682	
500.0	500.0	500.0	500.0	1.0	1.0	85.74	2.2	29.3	29.4	27.4	2.02	14.530	
600.0	600.0	600.0	600.0	1.2	1.2	85.74	2.2	29.3	29.4	26.9	2.47	11.889	
700.0	700.0	700.0	700.0	1.5	1.5	85.74	2.2	29.3	29.4	26.5	2.92	10.060	
800.0	800.0	800.0	800.0	1.7	1.7	85.74	2.2	29.3	29.4	26.0	3.37	8.718	
900.0	900.0	900.0	900.0	1.9	1.9	85.74	2.2	29.3	29.4	25.6	3.82	7.693	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	85.74	2.2	29.3	29.4	25.1	4.27	6.883	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	85.74	2.2	29.3	29.4	24.7	4.72	6.227	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	85.74	2.2	29.3	29.4	24.2	5.17	5.686	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	85.74	2.2	29.3	29.4	23.8	5.62	5.231	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	85.74	2.2	29.3	29.4	23.3	6.07	4.843	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	85.74	2.2	29.3	29.4	22.9	6.52	4.509	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	85.74	2.2	29.3	29.4	22.4	6.97	4.219	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	85.74	2.2	29.3	29.4	22.0	7.42	3.963	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	85.74	2.2	29.3	29.4	21.5	7.87	3.736	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	85.74	2.2	29.3	29.4	21.1	8.32	3.534	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	85.74	2.2	29.3	29.4	20.6	8.77	3.353	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	85.74	2.2	29.3	29.4	20.2	9.22	3.190	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	85.74	2.2	29.3	29.4	19.7	9.66	3.041	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	85.74	2.2	29.3	29.4	19.3	10.11	2.906	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	85.74	2.2	29.3	29.4	18.8	10.56	2.782	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	85.74	2.2	29.3	29.4	18.4	11.01	2.669	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	85.74	2.2	29.3	29.4	17.9	11.46	2.564	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	85.74	2.2	29.3	29.4	17.5	11.91	2.467	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	85.74	2.2	29.3	29.4	17.0	12.36	2.378	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	85.74	2.2	29.3	29.4	16.6	12.81	2.294	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	85.74	2.2	29.3	29.4	16.1	13.26	2.217	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	85.74	2.2	29.3	29.4	15.7	13.71	2.144	
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	85.74	2.2	29.3	29.4	15.2	14.16	2.076	
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	85.74	2.2	29.3	29.4	14.8	14.61	2.012	
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	85.74	2.2	29.3	29.4	14.3	15.06	1.952	
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	85.74	2.2	29.3	29.4	13.9	15.51	1.895	
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	85.74	2.2	29.3	29.4	13.4	15.96	1.842	
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	85.74	2.2	29.3	29.4	13.0	16.41	1.791	
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	85.74	2.2	29.3	29.4	12.5	16.86	1.744	
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	85.74	2.2	29.3	29.4	12.1	17.31	1.698	
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	85.74	2.2	29.3	29.4	11.6	17.76	1.655	CC, ES
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	107.50	2.2	29.3	30.1	11.9	18.20	1.652	SF
4,200.0	4,199.6	4,199.6	4,199.6	9.3	9.3	120.37	2.2	29.3	33.3	14.7	18.63	1.787	
4,300.0	4,298.8	4,298.8	4,298.8	9.6	9.5	135.89	2.2	29.3	41.5	22.5	18.99	2.184	
4,400.0	4,397.1	4,397.1	4,397.1	9.8	9.8	148.67	2.2	29.3	56.1	36.8	19.28	2.908	
4,500.0	4,494.3	4,494.3	4,494.3	10.0	10.0	157.45	2.2	29.3	77.1	57.5	19.50	3.950	
4,600.0	4,590.2	4,590.2	4,590.2	10.3	10.2	163.20	2.2	29.3	103.9	84.3	19.68	5.282	
4,700.0	4,684.4	4,684.4	4,684.4	10.6	10.4	167.02	2.2	29.3	136.3	116.5	19.81	6.883	
4,800.0	4,776.8	4,783.5	4,783.4	11.0	10.6	169.82	3.4	28.7	172.6	152.7	19.90	8.676	
4,900.0	4,867.1	4,886.6	4,886.3	11.4	10.9	171.99	9.4	25.5	209.3	189.3	19.95	10.487	
5,000.0	4,954.9	4,992.0	4,991.0	11.9	11.1	173.79	20.6	19.6	245.8	225.8	19.98	12.303	
5,100.0	5,041.6	5,100.8	5,098.1	12.5	11.4	175.43	37.4	10.7	279.7	259.3	20.45	13.677	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle 1C 11-002HN
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 1C 11-002HN	**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 1C 11-039HN - Wellbore #1 - Plan #1 (12-10-13) — Offset Site Error: 0.0 ft

Survey Program: 0-MWD — Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,128.2	5,213.7	5,207.9	13.2	11.6	176.88	60.6	-1.5	308.3	287.3	20.95	14.713	
5,300.0	5,214.8	5,330.1	5,319.3	13.8	12.0	178.26	90.5	-17.2	331.2	309.7	21.48	15.417	
5,400.0	5,301.5	5,449.4	5,431.1	14.5	12.3	179.67	127.2	-36.6	348.3	326.3	22.05	15.798	
5,500.0	5,388.1	5,570.6	5,541.8	15.3	12.8	-178.83	170.8	-59.6	359.4	336.8	22.65	15.871	
5,600.0	5,474.7	5,692.8	5,650.0	16.0	13.4	-177.16	221.0	-86.0	364.5	341.2	23.29	15.649	
5,700.0	5,561.4	5,796.1	5,739.4	16.8	13.9	-175.64	266.7	-110.2	365.7	341.8	23.93	15.281	
5,800.0	5,648.0	5,895.6	5,825.6	17.6	14.5	-174.18	310.8	-133.4	367.2	342.5	24.61	14.919	
5,900.0	5,734.6	5,995.2	5,911.7	18.5	15.2	-172.73	355.0	-156.7	368.8	343.5	25.33	14.557	
6,000.0	5,821.3	6,094.7	5,997.8	19.3	15.9	-171.30	399.1	-180.0	370.7	344.6	26.11	14.196	
6,100.0	5,907.9	6,194.3	6,084.0	20.2	16.6	-169.88	443.3	-203.3	372.8	345.8	26.94	13.836	
6,200.0	5,994.5	6,293.8	6,170.1	21.0	17.3	-168.48	487.4	-226.6	375.1	347.3	27.83	13.478	
6,300.0	6,081.2	6,393.4	6,256.2	21.9	18.1	-167.09	531.6	-249.8	377.7	348.9	28.78	13.123	
6,400.0	6,167.8	6,492.9	6,342.4	22.8	18.9	-165.73	575.7	-273.1	380.5	350.7	29.79	12.771	
6,500.0	6,254.4	6,592.5	6,428.5	23.7	19.7	-164.38	619.9	-296.4	383.5	352.6	30.86	12.424	
6,600.0	6,341.1	6,692.0	6,514.6	24.6	20.6	-163.06	664.0	-319.7	386.7	354.7	32.00	12.084	
6,700.0	6,427.7	6,791.6	6,600.8	25.5	21.4	-161.76	708.2	-342.9	390.1	356.9	33.20	11.751	
6,800.0	6,514.4	6,892.7	6,688.4	26.4	22.3	-160.54	753.1	-366.0	393.7	359.2	34.42	11.436	
6,900.0	6,601.0	6,998.9	6,782.5	27.4	22.9	-161.84	801.3	-372.7	396.1	361.2	34.86	11.361	
7,000.0	6,687.6	7,095.7	6,867.3	28.3	23.4	-166.13	844.8	-356.7	398.6	364.2	34.40	11.586	
7,100.0	6,774.7	7,179.5	6,936.6	29.1	23.7	171.24	880.3	-326.3	405.0	371.2	33.86	11.960	
7,200.0	6,861.3	7,257.5	6,995.6	29.7	23.9	143.72	910.5	-285.3	415.5	381.3	34.17	12.158	
7,300.0	6,943.0	7,331.8	7,044.8	30.3	24.0	122.99	935.8	-235.9	428.0	392.9	35.08	12.202	
7,400.0	7,015.6	7,403.4	7,084.7	30.6	24.0	108.93	956.2	-180.2	440.8	404.7	36.06	12.223	
7,500.0	7,075.5	7,475.0	7,116.1	30.9	24.0	99.64	972.3	-117.9	452.3	415.4	36.93	12.247	
7,600.0	7,119.6	7,541.5	7,136.8	31.0	24.0	93.89	982.9	-55.7	461.2	423.4	37.82	12.194	
7,700.0	7,145.6	7,609.2	7,149.1	31.1	23.9	90.80	989.2	10.5	466.8	427.7	39.11	11.934	
7,800.0	7,152.4	7,683.1	7,152.4	31.1	23.9	90.00	990.9	84.2	468.6	427.6	41.00	11.429	
7,900.0	7,152.4	7,784.0	7,152.4	31.1	23.8	90.00	991.4	185.1	468.6	425.0	43.60	10.747	
8,000.0	7,152.4	7,884.0	7,152.4	31.3	24.2	90.00	991.9	285.1	468.6	421.8	46.71	10.031	
8,100.0	7,152.4	7,984.0	7,152.4	31.6	25.6	90.00	992.4	385.1	468.6	418.3	50.26	9.324	
8,200.0	7,152.4	8,084.0	7,152.4	32.2	27.5	90.00	992.9	485.1	468.6	414.4	54.15	8.653	
8,300.0	7,152.4	8,184.0	7,152.4	33.2	29.6	90.00	993.4	585.1	468.6	410.2	58.33	8.033	
8,400.0	7,152.4	8,284.0	7,152.4	34.6	31.9	90.00	993.9	685.1	468.6	405.8	62.73	7.470	
8,500.0	7,152.4	8,384.0	7,152.4	36.4	34.2	90.00	994.4	785.1	468.6	401.2	67.31	6.962	
8,600.0	7,152.4	8,484.0	7,152.4	38.4	36.5	90.00	994.9	885.1	468.5	396.5	72.03	6.505	
8,700.0	7,152.4	8,584.0	7,152.4	40.6	38.9	90.00	995.4	985.1	468.5	391.7	76.88	6.095	
8,800.0	7,152.4	8,684.0	7,152.4	42.9	41.4	90.00	995.9	1,085.1	468.5	386.7	81.82	5.727	
8,900.0	7,152.4	8,784.0	7,152.4	45.2	43.9	90.00	996.4	1,185.1	468.5	381.7	86.84	5.395	
9,000.0	7,152.4	8,884.0	7,152.4	47.6	46.5	90.00	996.9	1,285.1	468.5	376.6	91.93	5.097	
9,100.0	7,152.4	8,984.0	7,152.4	50.1	49.0	90.00	997.3	1,385.1	468.5	371.5	97.08	4.826	
9,200.0	7,152.4	9,084.0	7,152.4	52.6	51.6	90.00	997.8	1,485.1	468.5	366.3	102.28	4.581	
9,300.0	7,152.4	9,184.0	7,152.4	55.2	54.2	90.00	998.3	1,585.1	468.5	361.0	107.52	4.358	
9,400.0	7,152.4	9,284.0	7,152.4	57.7	56.9	90.00	998.8	1,685.1	468.5	355.7	112.79	4.154	
9,500.0	7,152.4	9,384.0	7,152.4	60.3	59.5	90.00	999.3	1,785.1	468.5	350.4	118.10	3.967	
9,600.0	7,152.4	9,484.0	7,152.4	62.9	62.2	90.00	999.8	1,885.1	468.5	345.1	123.43	3.796	
9,700.0	7,152.4	9,584.0	7,152.4	65.5	64.8	90.00	1,000.3	1,985.1	468.5	339.7	128.78	3.638	
9,800.0	7,152.4	9,684.0	7,152.4	68.2	67.5	90.00	1,000.8	2,085.1	468.5	334.4	134.16	3.492	
9,900.0	7,152.4	9,784.0	7,152.4	70.8	70.2	90.00	1,001.3	2,185.1	468.5	329.0	139.55	3.357	
10,000.0	7,152.4	9,884.0	7,152.4	73.5	72.9	90.00	1,001.8	2,285.1	468.5	323.6	144.97	3.232	
10,100.0	7,152.4	9,984.0	7,152.4	76.2	75.6	90.00	1,002.3	2,385.1	468.5	318.1	150.39	3.115	
10,200.0	7,152.4	10,084.0	7,152.4	78.9	78.3	90.00	1,002.8	2,485.1	468.5	312.7	155.83	3.007	
10,300.0	7,152.4	10,184.0	7,152.4	81.6	81.1	90.00	1,003.3	2,585.1	468.5	307.2	161.28	2.905	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle 1C 11-002HN
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 1C 11-002HN	**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 1C 11-039HN - Wellbore #1 - Plan #1 (12-10-13)

Offset Site Error: 0.0ft

Survey Program: 0-MWD

Offset Well Error: 0.0ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,152.4	10,284.0	7,152.4	84.3	83.8	90.00	1,003.8	2,685.1	468.5	301.8	166.74	2.810	
10,500.0	7,152.4	10,384.0	7,152.4	87.0	86.5	90.00	1,004.3	2,785.1	468.5	296.3	172.21	2.721	
10,600.0	7,152.4	10,484.0	7,152.4	89.7	89.2	90.00	1,004.8	2,885.1	468.5	290.8	177.69	2.637	
10,700.0	7,152.4	10,584.0	7,152.4	92.4	92.0	90.00	1,005.2	2,985.1	468.5	285.3	183.18	2.558	
10,800.0	7,152.4	10,684.0	7,152.4	95.1	94.7	90.00	1,005.7	3,085.1	468.5	279.8	188.67	2.483	
10,900.0	7,152.4	10,784.0	7,152.4	97.8	97.5	90.00	1,006.2	3,185.1	468.5	274.3	194.17	2.413	
11,000.0	7,152.4	10,884.0	7,152.4	100.6	100.2	90.00	1,006.7	3,285.1	468.5	268.8	199.68	2.346	
11,100.0	7,152.4	10,984.0	7,152.4	103.3	103.0	90.00	1,007.2	3,385.1	468.5	263.3	205.19	2.283	
11,200.0	7,152.4	11,084.0	7,152.4	106.0	105.7	90.00	1,007.7	3,485.1	468.5	257.8	210.71	2.223	
11,300.0	7,152.4	11,184.0	7,152.4	108.8	108.5	90.00	1,008.2	3,585.1	468.5	252.3	216.23	2.167	
11,400.0	7,152.4	11,284.0	7,152.4	111.5	111.2	90.00	1,008.7	3,685.1	468.5	246.7	221.76	2.113	
11,500.0	7,152.4	11,384.0	7,152.4	114.3	114.0	90.00	1,009.2	3,785.1	468.5	241.2	227.29	2.061	
11,600.0	7,152.4	11,484.0	7,152.4	117.0	116.8	90.00	1,009.7	3,885.1	468.5	235.7	232.82	2.012	
11,700.0	7,152.4	11,584.0	7,152.4	119.8	119.5	90.00	1,010.2	3,985.1	468.5	230.1	238.36	1.965	
11,800.0	7,152.4	11,684.0	7,152.4	122.5	122.3	90.00	1,010.7	4,085.1	468.5	224.6	243.90	1.921	
11,900.0	7,152.4	11,784.0	7,152.4	125.3	125.1	90.00	1,011.2	4,185.1	468.5	219.0	249.44	1.878	
12,000.0	7,152.4	11,884.0	7,152.4	128.1	127.8	90.00	1,011.7	4,285.1	468.5	213.5	254.99	1.837	
12,100.0	7,152.4	11,984.0	7,152.4	130.8	130.6	90.00	1,012.2	4,385.1	468.5	207.9	260.54	1.798	
12,143.0	7,152.4	12,027.0	7,152.4	132.0	131.8	90.00	1,012.4	4,428.1	468.5	205.6	262.93	1.782	
12,159.3	7,152.4	12,038.9	7,152.4	132.5	132.1	90.00	1,012.4	4,439.9	468.5	204.8	263.71	1.777	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle 1C 11-002HN
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 1C 11-002HN	**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 1C 11-042HC - Wellbore #1 - Plan #1 (12-10-13) — Offset Site Error: 0.0ft

Survey Program: 0-MWD — Offset Well Error: 0.0ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	87.19	2.9	59.5	59.5				
100.0	100.0	100.0	100.0	0.1	0.1	87.19	2.9	59.5	59.5	59.3	0.22	264.868	
200.0	200.0	200.0	200.0	0.3	0.3	87.19	2.9	59.5	59.5	58.9	0.67	88.289	
300.0	300.0	300.0	300.0	0.6	0.6	87.19	2.9	59.5	59.5	58.4	1.12	52.974	
400.0	400.0	400.0	400.0	0.8	0.8	87.19	2.9	59.5	59.5	58.0	1.57	37.838	
500.0	500.0	500.0	500.0	1.0	1.0	87.19	2.9	59.5	59.5	57.5	2.02	29.430	
600.0	600.0	600.0	600.0	1.2	1.2	87.19	2.9	59.5	59.5	57.1	2.47	24.079	
700.0	700.0	700.0	700.0	1.5	1.5	87.19	2.9	59.5	59.5	56.6	2.92	20.374	
800.0	800.0	800.0	800.0	1.7	1.7	87.19	2.9	59.5	59.5	56.2	3.37	17.658	
900.0	900.0	900.0	900.0	1.9	1.9	87.19	2.9	59.5	59.5	55.7	3.82	15.580	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	87.19	2.9	59.5	59.5	55.3	4.27	13.940	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	87.19	2.9	59.5	59.5	54.8	4.72	12.613	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	87.19	2.9	59.5	59.5	54.4	5.17	11.516	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	87.19	2.9	59.5	59.5	53.9	5.62	10.595	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	87.19	2.9	59.5	59.5	53.5	6.07	9.810	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	87.19	2.9	59.5	59.5	53.0	6.52	9.133	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	87.19	2.9	59.5	59.5	52.6	6.97	8.544	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	87.19	2.9	59.5	59.5	52.1	7.42	8.026	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	87.19	2.9	59.5	59.5	51.7	7.87	7.568	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	87.19	2.9	59.5	59.5	51.2	8.32	7.159	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	87.19	2.9	59.5	59.5	50.8	8.77	6.791	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	87.19	2.9	59.5	59.5	50.3	9.22	6.460	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	87.19	2.9	59.5	59.5	49.9	9.66	6.160	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	87.19	2.9	59.5	59.5	49.4	10.11	5.886	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	87.19	2.9	59.5	59.5	49.0	10.56	5.635	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	87.19	2.9	59.5	59.5	48.5	11.01	5.405	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	87.19	2.9	59.5	59.5	48.1	11.46	5.193	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	87.19	2.9	59.5	59.5	47.6	11.91	4.998	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	87.19	2.9	59.5	59.5	47.2	12.36	4.816	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	87.19	2.9	59.5	59.5	46.7	12.81	4.647	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	87.19	2.9	59.5	59.5	46.3	13.26	4.489	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	87.19	2.9	59.5	59.5	45.8	13.71	4.342	
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	87.19	2.9	59.5	59.5	45.4	14.16	4.204	
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	87.19	2.9	59.5	59.5	44.9	14.61	4.075	
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	87.19	2.9	59.5	59.5	44.5	15.06	3.953	
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	87.19	2.9	59.5	59.5	44.0	15.51	3.839	
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	87.19	2.9	59.5	59.5	43.6	15.96	3.731	
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	87.19	2.9	59.5	59.5	43.1	16.41	3.628	
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	87.19	2.9	59.5	59.5	42.7	16.86	3.532	
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	87.19	2.9	59.5	59.5	42.2	17.31	3.440	
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	87.19	2.9	59.5	59.5	41.8	17.76	3.353	CC, ES
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	106.50	2.9	59.5	60.2	42.0	18.20	3.309	
4,200.0	4,199.6	4,199.6	4,199.6	9.3	9.3	113.28	2.9	59.5	62.9	44.3	18.63	3.376	
4,300.0	4,298.8	4,298.8	4,298.8	9.6	9.5	123.04	2.9	59.5	69.1	50.1	19.03	3.632	
4,400.0	4,397.1	4,397.1	4,397.1	9.8	9.8	133.62	2.9	59.5	80.6	61.2	19.37	4.162	
4,500.0	4,494.3	4,494.3	4,494.3	10.0	10.0	143.09	2.9	59.5	98.3	78.7	19.63	5.010	
4,600.0	4,590.2	4,590.2	4,590.2	10.3	10.2	150.66	2.9	59.5	122.5	102.6	19.82	6.180	
4,700.0	4,684.4	4,684.4	4,684.4	10.6	10.4	156.37	2.9	59.5	152.7	132.8	19.95	7.656	
4,800.0	4,776.8	4,776.8	4,776.8	11.0	10.6	160.62	2.9	59.5	188.7	168.7	20.02	9.422	
4,900.0	4,867.1	4,867.1	4,867.1	11.4	10.8	163.77	2.9	59.5	230.0	210.0	20.06	11.468	
5,000.0	4,954.9	4,954.9	4,954.9	11.9	11.0	166.15	2.9	59.5	276.5	256.4	20.06	13.784	
5,100.0	5,041.6	5,041.6	5,041.6	12.5	11.2	168.25	2.9	59.5	325.5	305.0	20.46	15.909	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle IC 11-002HN
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 11-002HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (12-10-13)	**Offset TVD Reference:**	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle IC 11-042HC - Wellbore #1 - Plan #1 (12-10-13) — Offset Site Error: 0.0ft

Survey Program: 0-MWD — Offset Well Error: 0.0ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,128.2	5,128.2	5,128.2	13.2	11.4	169.80	2.9	59.5	374.7	353.9	20.88	17.944	
5,300.0	5,214.8	5,214.8	5,214.8	13.8	11.6	170.99	2.9	59.5	424.2	402.8	21.33	19.890	
5,400.0	5,301.5	5,323.4	5,323.3	14.5	11.8	172.24	4.6	57.9	472.0	450.2	21.81	21.641	
5,500.0	5,388.1	5,442.5	5,442.0	15.3	12.1	173.58	11.6	51.5	515.0	492.7	22.32	23.069	
5,600.0	5,474.7	5,567.5	5,565.8	16.0	12.4	175.02	24.9	39.4	552.6	529.7	22.86	24.169	
5,700.0	5,561.4	5,698.0	5,693.3	16.8	12.7	176.59	45.1	21.0	584.5	561.1	23.43	24.946	
5,800.0	5,648.0	5,832.8	5,822.8	17.6	13.1	178.34	72.6	-4.1	610.6	586.5	24.04	25.396	
5,900.0	5,734.6	5,970.9	5,952.4	18.5	13.5	-179.70	107.8	-36.1	630.6	605.9	24.70	25.525	
6,000.0	5,821.3	6,110.8	6,079.9	19.3	14.1	-177.50	150.3	-75.0	644.5	619.0	25.44	25.330	
6,100.0	5,907.9	6,246.4	6,199.1	20.2	14.7	-175.09	198.1	-118.5	652.5	626.3	26.28	24.831	
6,200.0	5,994.5	6,344.0	6,283.5	21.0	15.3	-173.29	234.3	-151.5	658.7	631.6	27.07	24.337	
6,300.0	6,081.2	6,441.5	6,367.8	21.9	15.9	-171.52	270.5	-184.6	665.5	637.6	27.92	23.834	
6,400.0	6,167.8	6,539.1	6,452.2	22.8	16.5	-169.79	306.8	-217.6	673.0	644.2	28.86	23.321	
6,500.0	6,254.4	6,636.7	6,536.5	23.7	17.2	-168.10	343.0	-250.6	681.1	651.2	29.87	22.800	
6,600.0	6,341.1	6,734.2	6,620.9	24.6	17.9	-166.44	379.2	-283.7	689.8	658.9	30.97	22.276	
6,700.0	6,427.7	6,831.8	6,705.2	25.5	18.7	-164.83	415.5	-316.7	699.1	667.0	32.14	21.753	
6,800.0	6,514.4	6,929.8	6,790.0	26.4	19.5	-163.26	451.9	-349.7	708.9	675.6	33.38	21.241	
6,900.0	6,601.0	7,033.4	6,883.1	27.4	20.1	-162.84	491.9	-370.3	718.8	684.5	34.27	20.976	
7,000.0	6,687.6	7,134.1	6,975.3	28.3	20.5	-164.26	531.5	-367.1	728.2	693.6	34.59	21.051	
7,100.0	6,774.7	7,225.0	7,056.1	29.1	20.7	175.69	566.2	-344.7	738.7	704.2	34.41	21.464	
7,200.0	6,861.3	7,310.6	7,126.9	29.7	20.8	150.36	596.6	-307.6	750.4	715.9	34.47	21.769	
7,300.0	6,943.0	7,392.2	7,187.0	30.3	20.8	131.47	622.4	-259.0	762.5	727.5	34.96	21.811	
7,400.0	7,015.6	7,471.0	7,236.3	30.6	20.8	118.87	643.6	-201.4	773.9	738.1	35.79	21.620	
7,500.0	7,075.5	7,550.0	7,275.4	30.9	20.8	110.68	660.4	-135.0	783.7	746.8	36.92	21.229	
7,600.0	7,119.6	7,625.0	7,302.0	31.0	20.7	105.62	671.8	-65.9	791.2	752.9	38.31	20.655	
7,700.0	7,145.6	7,700.0	7,317.4	31.1	20.7	102.93	678.4	7.1	795.9	755.9	40.01	19.893	
7,800.0	7,152.4	7,778.1	7,321.4	31.1	20.8	102.24	680.2	85.0	797.4	755.4	41.99	18.989	
7,900.0	7,152.4	7,879.6	7,321.4	31.1	21.9	102.24	680.6	186.5	797.5	752.9	44.59	17.882	
8,000.0	7,152.4	7,979.6	7,321.4	31.3	23.5	102.23	681.1	286.5	797.5	749.8	47.65	16.735	
8,100.0	7,152.4	8,079.6	7,321.4	31.6	25.4	102.23	681.6	386.5	797.5	746.4	51.12	15.600	
8,200.0	7,152.4	8,179.6	7,321.4	32.2	27.4	102.23	682.1	486.5	797.5	742.6	54.92	14.521	
8,300.0	7,152.4	8,279.6	7,321.4	33.2	29.6	102.23	682.5	586.5	797.5	738.6	58.99	13.520	
8,400.0	7,152.4	8,379.6	7,321.4	34.6	31.8	102.23	683.0	686.5	797.6	734.3	63.27	12.605	
8,500.0	7,152.4	8,479.6	7,321.4	36.4	34.1	102.23	683.5	786.5	797.6	729.9	67.73	11.776	
8,600.0	7,152.4	8,579.6	7,321.4	38.4	36.5	102.23	683.9	886.5	797.6	725.3	72.33	11.027	
8,700.0	7,152.4	8,679.6	7,321.4	40.6	39.0	102.23	684.4	986.5	797.6	720.6	77.05	10.352	
8,800.0	7,152.4	8,779.6	7,321.4	42.9	41.5	102.23	684.9	1,086.5	797.7	715.8	81.86	9.744	
8,900.0	7,152.4	8,879.6	7,321.4	45.2	44.0	102.23	685.3	1,186.5	797.7	710.9	86.76	9.194	
9,000.0	7,152.4	8,979.6	7,321.4	47.6	46.5	102.23	685.8	1,286.5	797.7	706.0	91.72	8.697	
9,100.0	7,152.4	9,079.6	7,321.4	50.1	49.1	102.23	686.3	1,386.5	797.7	701.0	96.74	8.246	
9,200.0	7,152.4	9,179.6	7,321.4	52.6	51.7	102.23	686.7	1,486.5	797.7	695.9	101.81	7.835	
9,300.0	7,152.4	9,279.6	7,321.4	55.2	54.3	102.23	687.2	1,586.5	797.8	690.8	106.92	7.461	
9,400.0	7,152.4	9,379.6	7,321.4	57.7	57.0	102.23	687.7	1,686.5	797.8	685.7	112.07	7.119	
9,500.0	7,152.4	9,479.6	7,321.4	60.3	59.6	102.23	688.2	1,786.5	797.8	680.6	117.25	6.804	
9,600.0	7,152.4	9,579.6	7,321.4	62.9	62.3	102.23	688.6	1,886.5	797.8	675.4	122.46	6.515	
9,700.0	7,152.4	9,679.6	7,321.4	65.5	65.0	102.23	689.1	1,986.5	797.9	670.2	127.69	6.249	
9,800.0	7,152.4	9,779.6	7,321.4	68.2	67.7	102.23	689.6	2,086.5	797.9	664.9	132.94	6.002	
9,900.0	7,152.4	9,879.6	7,321.4	70.8	70.4	102.23	690.0	2,186.5	797.9	659.7	138.21	5.773	
10,000.0	7,152.4	9,979.6	7,321.4	73.5	73.1	102.23	690.5	2,286.5	797.9	654.4	143.50	5.561	
10,100.0	7,152.4	10,079.6	7,321.4	76.2	75.8	102.23	691.0	2,386.5	797.9	649.2	148.80	5.363	
10,200.0	7,152.4	10,179.6	7,321.4	78.9	78.5	102.23	691.4	2,486.5	798.0	643.9	154.11	5.178	
10,300.0	7,152.4	10,279.6	7,321.4	81.6	81.2	102.23	691.9	2,586.5	798.0	638.6	159.44	5.005	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle LC 11-002HN
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 11-002HN	**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 11-042HC - Wellbore #1 - Plan #1 (12-10-13) — **Offset Site Error:** 0.0ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,152.4	10,379.6	7,321.4	84.3	83.9	102.23	692.4	2,686.5	798.0	633.2	164.78	4.843	
10,500.0	7,152.4	10,479.6	7,321.4	87.0	86.7	102.23	692.8	2,786.5	798.0	627.9	170.13	4.691	
10,600.0	7,152.4	10,579.6	7,321.4	89.7	89.4	102.23	693.3	2,886.5	798.1	622.6	175.48	4.548	
10,700.0	7,152.4	10,679.6	7,321.4	92.4	92.2	102.23	693.8	2,986.5	798.1	617.2	180.85	4.413	
10,800.0	7,152.4	10,779.6	7,321.4	95.1	94.9	102.22	694.2	3,086.5	798.1	611.9	186.22	4.286	
10,900.0	7,152.4	10,879.6	7,321.4	97.8	97.7	102.22	694.7	3,186.4	798.1	606.5	191.60	4.166	
11,000.0	7,152.4	10,979.6	7,321.4	100.6	100.4	102.22	695.2	3,286.4	798.2	601.2	196.99	4.052	
11,100.0	7,152.4	11,079.6	7,321.4	103.3	103.2	102.22	695.7	3,386.4	798.2	595.8	202.38	3.944	
11,200.0	7,152.4	11,179.6	7,321.4	106.0	105.9	102.22	696.1	3,486.4	798.2	590.4	207.78	3.842	
11,300.0	7,152.4	11,279.6	7,321.4	108.8	108.7	102.22	696.6	3,586.4	798.2	585.0	213.18	3.744	
11,400.0	7,152.4	11,379.6	7,321.4	111.5	111.4	102.22	697.1	3,686.4	798.2	579.7	218.59	3.652	
11,500.0	7,152.4	11,479.6	7,321.4	114.3	114.2	102.22	697.5	3,786.4	798.3	574.3	224.00	3.564	
11,600.0	7,152.4	11,579.6	7,321.4	117.0	117.0	102.22	698.0	3,886.4	798.3	568.9	229.41	3.480	
11,700.0	7,152.4	11,679.6	7,321.4	119.8	119.7	102.22	698.5	3,986.4	798.3	563.5	234.83	3.400	
11,800.0	7,152.4	11,779.6	7,321.4	122.5	122.5	102.22	698.9	4,086.4	798.3	558.1	240.25	3.323	
11,900.0	7,152.4	11,879.6	7,321.4	125.3	125.3	102.22	699.4	4,186.4	798.4	552.7	245.68	3.250	
12,000.0	7,152.4	11,979.6	7,321.4	128.1	128.0	102.22	699.9	4,286.4	798.4	547.3	251.11	3.179	
12,100.0	7,152.4	12,079.6	7,321.4	130.8	130.8	102.22	700.3	4,386.4	798.4	541.9	256.54	3.112	
12,130.3	7,152.4	12,109.9	7,321.4	131.7	131.7	102.22	700.5	4,416.8	798.4	540.2	258.19	3.092	
12,159.3	7,152.4	12,131.8	7,321.4	132.5	132.3	102.22	700.6	4,438.6	798.4	538.9	259.56	3.076 SF	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle TC 11-002HN
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 TC 11-002HN	**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 TC 11-239HN - Wellbore #1 - Plan #1 (12-10-13) — Offset Site Error: 0.0ft

Survey Program: 0-MWD — Offset Well Error: 0.0ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	146.57	-97.3	64.2	116.5				
100.0	100.0	100.0	100.0	0.1	0.1	148.57	-97.3	64.2	116.5	116.3	0.22	518.538	
200.0	200.0	200.0	200.0	0.3	0.3	146.57	-97.3	64.2	116.5	115.9	0.67	172.846	
300.0	300.0	300.0	300.0	0.6	0.6	146.57	-97.3	64.2	116.5	115.4	1.12	103.708	
400.0	400.0	400.0	400.0	0.8	0.8	146.57	-97.3	64.2	116.5	115.0	1.57	74.077	
500.0	500.0	500.0	500.0	1.0	1.0	146.57	-97.3	64.2	116.5	114.5	2.02	57.615	
600.0	600.0	600.0	600.0	1.2	1.2	146.57	-97.3	64.2	116.5	114.1	2.47	47.140	
700.0	700.0	700.0	700.0	1.5	1.5	146.57	-97.3	64.2	116.5	113.6	2.92	39.888	
800.0	800.0	800.0	800.0	1.7	1.7	146.57	-97.3	64.2	116.5	113.2	3.37	34.569	
900.0	900.0	900.0	900.0	1.9	1.9	146.57	-97.3	64.2	116.5	112.7	3.82	30.502	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	146.57	-97.3	64.2	116.5	112.3	4.27	27.291	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	146.57	-97.3	64.2	116.5	111.8	4.72	24.692	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	146.57	-97.3	64.2	116.5	111.4	5.17	22.545	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	146.57	-97.3	64.2	116.5	110.9	5.62	20.742	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	146.57	-97.3	64.2	116.5	110.5	6.07	19.205	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	146.57	-97.3	64.2	116.5	110.0	6.52	17.881	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	146.57	-97.3	64.2	116.5	109.6	6.97	16.727	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	146.57	-97.3	64.2	116.5	109.1	7.42	15.713	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	146.57	-97.3	64.2	116.5	108.7	7.87	14.815	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	146.57	-97.3	64.2	116.5	108.2	8.32	14.015	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	146.57	-97.3	64.2	116.5	107.8	8.77	13.296	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	146.57	-97.3	64.2	116.5	107.3	9.22	12.647	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	146.57	-97.3	64.2	116.5	106.9	9.66	12.059	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	146.57	-97.3	64.2	116.5	106.4	10.11	11.523	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	146.57	-97.3	64.2	116.5	106.0	10.56	11.033	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	146.57	-97.3	64.2	116.5	105.5	11.01	10.582	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	146.57	-97.3	64.2	116.5	105.1	11.46	10.167	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	146.57	-97.3	64.2	116.5	104.6	11.91	9.784	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	146.57	-97.3	64.2	116.5	104.2	12.36	9.428	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	146.57	-97.3	64.2	116.5	103.7	12.81	9.097	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	146.57	-97.3	64.2	116.5	103.3	13.26	8.789	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	146.57	-97.3	64.2	116.5	102.8	13.71	8.501	
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	146.57	-97.3	64.2	116.5	102.4	14.16	8.231	
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	146.57	-97.3	64.2	116.5	101.9	14.61	7.978	
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	146.57	-97.3	64.2	116.5	101.5	15.06	7.739	
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	146.57	-97.3	64.2	116.5	101.0	15.51	7.515	
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	146.57	-97.3	64.2	116.5	100.6	15.96	7.303	
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	146.57	-97.3	64.2	116.5	100.1	16.41	7.103	
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	146.57	-97.3	64.2	116.5	99.7	16.86	6.914	
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	146.57	-97.3	64.2	116.5	99.2	17.31	6.734	
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	146.57	-97.3	64.2	116.5	98.8	17.76	6.564	CC, ES
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	163.82	-97.3	64.2	119.1	100.9	18.19	6.547	SF
4,200.0	4,199.6	4,195.7	4,195.6	9.3	9.3	165.56	-99.5	63.4	128.2	109.6	18.54	6.914	
4,300.0	4,298.8	4,289.4	4,289.1	9.6	9.5	168.86	-106.1	61.0	145.7	126.9	18.81	7.744	
4,400.0	4,397.1	4,379.9	4,378.9	9.8	9.6	172.70	-116.5	57.2	172.0	153.0	19.04	9.036	
4,500.0	4,494.3	4,466.2	4,464.0	10.0	9.8	176.37	-130.1	52.2	207.3	188.1	19.22	10.788	
4,600.0	4,590.2	4,547.5	4,543.4	10.3	9.9	179.56	-146.3	46.2	251.3	231.9	19.35	12.984	
4,700.0	4,684.4	4,623.1	4,616.5	10.6	10.1	-177.78	-164.1	39.7	303.3	283.8	19.44	15.603	
4,800.0	4,776.8	4,692.6	4,683.1	11.0	10.2	-175.57	-182.9	32.8	362.6	343.2	19.48	18.618	
4,900.0	4,867.1	4,755.8	4,743.0	11.4	10.4	-173.69	-202.0	25.8	428.7	409.2	19.48	22.003	
5,000.0	4,954.9	4,812.8	4,796.4	11.9	10.6	-172.05	-220.7	19.0	500.6	481.1	19.45	25.733	
5,100.0	5,041.6	4,865.1	4,844.8	12.5	10.8	-171.05	-239.3	12.2	576.0	556.2	19.84	29.037	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle 11-002HN
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 11-002HN	**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 11-239HN - Wellbore #1 - Plan #1 (12-10-13) — Offset Site Error: 0.0 ft

Survey Program: 0-MWD — Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,128.2	4,914.5	4,890.0	13.2	10.9	-170.19	-257.9	5.3	653.0	632.8	20.23	32.282	
5,300.0	5,214.8	4,961.1	4,932.2	13.8	11.1	-169.44	-276.4	-1.5	731.6	710.9	20.63	35.455	
5,400.0	5,301.5	5,000.0	4,967.1	14.5	11.3	-168.86	-292.7	-7.4	811.4	790.4	21.03	38.580	
5,500.0	5,388.1	5,046.6	5,008.3	15.3	11.5	-168.20	-313.0	-14.9	892.5	871.0	21.47	41.577	
5,600.0	5,474.7	5,100.0	5,054.9	16.0	11.8	-167.49	-337.5	-23.9	974.9	953.0	21.93	44.460	
5,700.0	5,561.4	5,128.1	5,079.2	16.8	11.9	-167.13	-350.8	-28.7	1,058.0	1,035.6	22.35	47.345	
5,800.0	5,648.0	5,182.7	5,126.3	17.6	12.2	-166.52	-376.7	-38.2	1,141.5	1,118.7	22.83	49.997	
5,900.0	5,734.6	5,237.3	5,173.4	18.5	12.6	-165.99	-402.6	-47.7	1,225.1	1,201.8	23.33	52.514	
6,000.0	5,821.3	5,291.8	5,220.4	19.3	12.9	-165.52	-428.6	-57.2	1,308.7	1,284.9	23.83	54.908	
6,100.0	5,907.9	5,346.4	5,267.5	20.2	13.2	-165.11	-454.5	-66.7	1,392.3	1,368.0	24.35	57.174	
6,200.0	5,994.5	5,401.0	5,314.6	21.0	13.6	-164.75	-480.4	-76.2	1,476.0	1,451.1	24.88	59.333	
6,300.0	6,081.2	5,455.6	5,361.7	21.9	14.0	-164.43	-506.3	-85.7	1,559.6	1,534.2	25.41	61.374	
6,400.0	6,167.8	5,510.2	5,408.8	22.8	14.4	-164.13	-532.2	-95.2	1,643.3	1,617.3	25.95	63.318	
6,500.0	6,254.4	5,564.7	5,455.9	23.7	14.8	-163.87	-558.1	-104.7	1,727.0	1,700.5	26.50	65.160	
6,600.0	6,341.1	5,619.3	5,503.0	24.6	15.2	-163.63	-584.1	-114.2	1,810.7	1,783.6	27.06	66.914	
6,700.0	6,427.7	5,673.9	5,550.0	25.5	15.6	-163.41	-610.0	-123.7	1,894.4	1,866.7	27.62	68.579	
6,800.0	6,514.4	5,728.5	5,597.1	26.4	16.0	-163.21	-635.9	-133.2	1,978.1	1,949.9	28.19	70.163	
6,900.0	6,601.0	5,783.1	5,644.2	27.4	16.4	-163.03	-661.8	-142.7	2,061.8	2,033.0	28.77	71.671	
7,000.0	6,687.6	5,837.6	5,691.3	28.3	16.9	-162.86	-687.7	-152.2	2,145.5	2,116.2	29.35	73.104	
7,100.0	6,774.7	5,891.4	5,737.7	29.1	17.3	166.61	-713.3	-161.6	2,229.1	2,199.5	29.63	75.242	
7,200.0	6,861.3	5,941.1	5,780.6	29.7	17.7	128.80	-736.8	-170.3	2,310.5	2,277.4	33.09	69.831	
7,300.0	6,943.0	5,984.0	5,817.5	30.3	18.0	101.69	-757.2	-177.7	2,386.2	2,350.2	35.96	66.352	
7,400.0	7,015.6	6,017.9	5,846.8	30.6	18.3	84.09	-773.3	-183.6	2,453.5	2,417.2	36.35	67.503	
7,500.0	7,075.5	6,041.0	5,866.8	30.9	18.5	72.89	-784.3	-187.7	2,510.1	2,475.5	34.68	72.372	
7,600.0	7,119.6	6,052.3	5,876.5	31.0	18.6	65.88	-789.7	-189.6	2,554.3	2,522.2	32.11	79.560	
7,700.0	7,145.6	6,051.1	5,875.5	31.1	18.6	61.79	-789.1	-189.4	2,584.5	2,554.6	29.96	86.260	
7,800.0	7,152.4	6,037.6	5,863.8	31.1	18.5	60.10	-782.7	-187.1	2,600.1	2,570.6	29.49	88.171	
7,900.0	7,152.4	6,020.0	5,848.6	31.1	18.3	59.71	-774.3	-184.0	2,612.7	2,582.3	30.41	85.908	
8,000.0	7,152.4	6,002.4	5,833.4	31.3	18.2	59.33	-765.9	-180.9	2,629.0	2,597.4	31.59	83.236	
8,100.0	7,152.4	5,984.7	5,818.2	31.6	18.1	58.95	-757.6	-177.9	2,648.8	2,615.9	32.95	80.383	
8,200.0	7,152.4	5,967.1	5,803.0	32.2	17.9	58.56	-749.2	-174.8	2,672.1	2,637.7	34.47	77.522	
8,300.0	7,152.4	5,949.4	5,787.8	33.2	17.8	58.18	-740.8	-171.7	2,698.8	2,662.7	36.10	74.761	
8,400.0	7,152.4	5,931.8	5,772.5	34.6	17.6	57.79	-732.4	-168.6	2,728.8	2,691.0	37.81	72.165	
8,500.0	7,152.4	5,914.2	5,757.3	36.4	17.5	57.41	-724.1	-165.6	2,762.0	2,722.4	39.59	69.764	
8,600.0	7,152.4	5,896.5	5,742.1	38.4	17.3	57.03	-715.7	-162.5	2,798.2	2,756.8	41.41	67.568	
8,700.0	7,152.4	5,878.9	5,726.9	40.6	17.2	56.64	-707.3	-159.4	2,837.4	2,794.2	43.27	65.574	
8,800.0	7,152.4	5,861.2	5,711.7	42.9	17.0	56.26	-698.9	-156.4	2,879.5	2,834.3	45.15	63.775	
8,900.0	7,152.4	5,843.6	5,696.4	45.2	16.9	55.88	-690.6	-153.3	2,924.2	2,877.2	47.04	62.158	
9,000.0	7,152.4	8,986.1	7,152.4	47.6	47.0	90.00	-1,487.8	1,290.0	2,953.2	2,862.3	90.87	32.498	
9,100.0	7,152.4	9,086.1	7,152.4	50.1	49.4	90.00	-1,487.5	1,390.0	2,953.4	2,857.4	96.01	30.761	
9,200.0	7,152.4	9,186.1	7,152.4	52.6	51.9	90.00	-1,487.3	1,490.0	2,953.7	2,852.5	101.20	29.186	
9,300.0	7,152.4	9,286.1	7,152.4	55.2	54.5	90.00	-1,487.0	1,590.0	2,953.9	2,847.5	106.44	27.753	
9,400.0	7,152.4	9,386.1	7,152.4	57.7	57.0	90.00	-1,486.8	1,690.0	2,954.2	2,842.5	111.71	26.446	
9,500.0	7,152.4	9,486.1	7,152.4	60.3	59.6	90.00	-1,486.6	1,790.0	2,954.4	2,837.4	117.01	25.250	
9,600.0	7,152.4	9,586.1	7,152.4	62.9	62.2	90.00	-1,486.3	1,890.0	2,954.7	2,832.3	122.33	24.152	
9,700.0	7,152.4	9,686.1	7,152.4	65.5	64.9	90.00	-1,486.1	1,990.0	2,954.9	2,827.2	127.69	23.142	
9,800.0	7,152.4	9,786.1	7,152.4	68.2	67.5	90.00	-1,485.8	2,090.0	2,955.2	2,822.1	133.06	22.209	
9,900.0	7,152.4	9,886.1	7,152.4	70.8	70.1	90.00	-1,485.6	2,190.0	2,955.4	2,816.9	138.45	21.346	
10,000.0	7,152.4	9,986.1	7,152.4	73.5	72.8	90.00	-1,485.3	2,290.0	2,955.7	2,811.8	143.86	20.545	
10,100.0	7,152.4	10,086.1	7,152.4	76.2	75.5	90.00	-1,485.1	2,390.0	2,955.9	2,806.6	149.29	19.800	
10,200.0	7,152.4	10,186.1	7,152.4	78.9	78.2	90.00	-1,484.8	2,490.0	2,956.1	2,801.4	154.72	19.106	
10,300.0	7,152.4	10,286.1	7,152.4	81.6	80.8	90.00	-1,484.6	2,590.0	2,956.4	2,796.2	160.17	18.457	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle LC 11-002HN
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 11-002HN	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,152.4	10,386.1	7,152.4	84.3	83.5	90.00	-1,484.4	2,690.0	2,956.6	2,791.0	165.63	17.851	
10,500.0	7,152.4	10,486.1	7,152.4	87.0	86.2	90.00	-1,484.1	2,790.0	2,956.9	2,785.8	171.10	17.281	
10,600.0	7,152.4	10,586.1	7,152.4	89.7	89.0	90.00	-1,483.9	2,890.0	2,957.1	2,780.6	176.58	16.747	
10,700.0	7,152.4	10,686.1	7,152.4	92.4	91.7	90.00	-1,483.6	2,990.0	2,957.4	2,775.3	182.07	16.243	
10,800.0	7,152.4	10,786.1	7,152.4	95.1	94.4	90.00	-1,483.4	3,090.0	2,957.6	2,770.1	187.56	15.769	
10,900.0	7,152.4	10,886.1	7,152.4	97.8	97.1	90.00	-1,483.1	3,190.0	2,957.9	2,764.8	193.06	15.321	
11,000.0	7,152.4	10,986.1	7,152.4	100.6	99.8	90.00	-1,482.9	3,290.0	2,958.1	2,759.6	198.57	14.897	
11,100.0	7,152.4	11,086.1	7,152.4	103.3	102.6	90.00	-1,482.7	3,390.0	2,958.4	2,754.3	204.08	14.496	
11,200.0	7,152.4	11,186.1	7,152.4	106.0	105.3	90.00	-1,482.4	3,490.0	2,958.6	2,749.0	209.60	14.116	
11,300.0	7,152.4	11,286.1	7,152.4	108.8	108.1	90.00	-1,482.2	3,590.0	2,958.9	2,743.8	215.12	13.755	
11,400.0	7,152.4	11,386.1	7,152.4	111.5	110.8	90.00	-1,481.9	3,690.0	2,959.1	2,738.5	220.65	13.411	
11,500.0	7,152.4	11,486.1	7,152.4	114.3	113.5	90.00	-1,481.7	3,790.0	2,959.4	2,733.2	226.18	13.084	
11,600.0	7,152.4	11,586.1	7,152.4	117.0	116.3	90.00	-1,481.4	3,890.0	2,959.6	2,727.9	231.71	12.773	
11,700.0	7,152.4	11,686.1	7,152.4	119.8	119.0	90.00	-1,481.2	3,990.0	2,959.9	2,722.6	237.25	12.476	
11,800.0	7,152.4	11,786.1	7,152.4	122.5	121.8	90.00	-1,481.0	4,090.0	2,960.1	2,717.3	242.79	12.192	
11,900.0	7,152.4	11,886.1	7,152.4	125.3	124.6	90.00	-1,480.7	4,190.0	2,960.4	2,712.0	248.33	11.921	
12,000.0	7,152.4	11,986.1	7,152.4	128.1	127.3	90.00	-1,480.5	4,290.0	2,960.6	2,706.7	253.88	11.661	
12,100.0	7,152.4	12,086.1	7,152.4	130.8	130.1	90.00	-1,480.2	4,390.0	2,960.9	2,701.4	259.43	11.413	
12,159.3	7,152.4	12,123.4	7,152.4	132.5	130.9	90.00	-1,480.1	4,427.2	2,961.1	2,699.2	261.88	11.307	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle IC 11-002HN
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 11-002HN	**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: 0.0 ft

Survey Program: 0-MWD — Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	160.84	-98.0	34.1	103.7				
100.0	100.0	100.0	100.0	0.1	0.1	160.84	-98.0	34.1	103.7	103.5	0.22	461.577	
200.0	200.0	200.0	200.0	0.3	0.3	160.84	-98.0	34.1	103.7	103.1	0.67	153.859	
300.0	300.0	300.0	300.0	0.6	0.6	160.84	-98.0	34.1	103.7	102.6	1.12	92.315	
400.0	400.0	400.0	400.0	0.8	0.8	160.84	-98.0	34.1	103.7	102.2	1.57	65.940	
500.0	500.0	500.0	500.0	1.0	1.0	160.84	-98.0	34.1	103.7	101.7	2.02	51.286	
600.0	600.0	600.0	600.0	1.2	1.2	160.84	-98.0	34.1	103.7	101.3	2.47	41.962	
700.0	700.0	700.0	700.0	1.5	1.5	160.84	-98.0	34.1	103.7	100.8	2.92	35.506	
800.0	800.0	800.0	800.0	1.7	1.7	160.84	-98.0	34.1	103.7	100.4	3.37	30.772	
900.0	900.0	900.0	900.0	1.9	1.9	160.84	-98.0	34.1	103.7	99.9	3.82	27.152	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	160.84	-98.0	34.1	103.7	99.5	4.27	24.294	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	160.84	-98.0	34.1	103.7	99.0	4.72	21.980	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	160.84	-98.0	34.1	103.7	98.6	5.17	20.069	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	160.84	-98.0	34.1	103.7	98.1	5.62	18.463	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	160.84	-98.0	34.1	103.7	97.7	6.07	17.095	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	160.84	-98.0	34.1	103.7	97.2	6.52	15.916	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	160.84	-98.0	34.1	103.7	96.8	6.97	14.890	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	160.84	-98.0	34.1	103.7	96.3	7.42	13.987	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	160.84	-98.0	34.1	103.7	95.9	7.87	13.188	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	160.84	-98.0	34.1	103.7	95.4	8.32	12.475	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	160.84	-98.0	34.1	103.7	95.0	8.77	11.835	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	160.84	-98.0	34.1	103.7	94.5	9.22	11.258	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	160.84	-98.0	34.1	103.7	94.1	9.66	10.734	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	160.84	-98.0	34.1	103.7	93.6	10.11	10.257	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	160.84	-98.0	34.1	103.7	93.2	10.56	9.821	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	160.84	-98.0	34.1	103.7	92.7	11.01	9.420	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	160.84	-98.0	34.1	103.7	92.3	11.46	9.051	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	160.84	-98.0	34.1	103.7	91.8	11.91	8.709	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	160.84	-98.0	34.1	103.7	91.4	12.36	8.392	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	160.84	-98.0	34.1	103.7	90.9	12.81	8.098	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	160.84	-98.0	34.1	103.7	90.5	13.26	7.823	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	160.84	-98.0	34.1	103.7	90.0	13.71	7.567	
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	160.84	-98.0	34.1	103.7	89.6	14.16	7.327	
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	160.84	-98.0	34.1	103.7	89.1	14.61	7.101	
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	160.84	-98.0	34.1	103.7	88.7	15.06	6.889	
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	160.84	-98.0	34.1	103.7	88.2	15.51	6.690	
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	160.84	-98.0	34.1	103.7	87.8	15.96	6.501	
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	160.84	-98.0	34.1	103.7	87.3	16.41	6.323	
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	160.84	-98.0	34.1	103.7	86.9	16.86	6.154	CC, ES
3,900.0	3,900.0	3,895.6	3,895.6	8.7	8.6	161.56	-100.3	33.4	105.8	88.6	17.27	6.128	SF
4,000.0	4,000.0	3,990.8	3,990.4	8.9	8.8	163.58	-107.2	31.6	112.2	94.5	17.66	6.352	
4,100.0	4,100.0	4,084.6	4,083.6	9.1	8.9	-176.69	-118.4	28.6	125.5	107.5	18.03	6.963	
4,200.0	4,199.6	4,175.8	4,173.4	9.3	9.1	-173.80	-133.6	24.5	148.6	130.2	18.35	8.094	
4,300.0	4,298.8	4,263.3	4,258.8	9.6	9.3	-171.28	-152.0	19.6	181.0	162.3	18.64	9.711	
4,400.0	4,397.1	4,346.1	4,338.6	9.8	9.5	-169.24	-172.9	14.0	222.2	203.4	18.87	11.777	
4,500.0	4,494.3	4,423.4	4,412.4	10.0	9.7	-167.62	-195.4	7.9	271.7	252.6	19.06	14.257	
4,600.0	4,590.2	4,500.0	4,484.4	10.3	9.9	-166.23	-220.5	1.2	328.7	309.5	19.21	17.113	
4,700.0	4,684.4	4,560.2	4,540.3	10.6	10.1	-165.12	-242.2	-4.6	392.4	373.1	19.30	20.335	
4,800.0	4,776.8	4,619.2	4,594.3	11.0	10.3	-164.03	-265.1	-10.8	462.3	442.9	19.36	23.882	
4,900.0	4,867.1	4,672.0	4,642.0	11.4	10.5	-162.92	-287.0	-16.6	537.5	518.1	19.38	27.727	
5,000.0	4,954.9	4,718.7	4,683.7	11.9	10.7	-161.75	-307.3	-22.1	617.4	598.0	19.40	31.826	
5,100.0	5,041.6	4,761.1	4,721.1	12.5	11.0	-161.81	-326.7	-27.3	700.0	680.3	19.77	35.412	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle LC 11-002HN
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 11-002HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (12-10-13)	**Offset TVD Reference:**	Offset Datum

Offset Design Postle West Pad Sec.11-T3N-R68W - Postle LC 11-259HC - Wellbore #1 - Plan #1 (12-10-13) — Offset Site Error: 0.0ft

Survey Program: 0-MWD — Offset Well Error: 0.0ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,128.2	4,800.0	4,754.9	13.2	11.1	-161.82	-345.1	-32.2	783.8	763.6	20.15	38.905	
5,300.0	5,214.8	4,848.8	4,797.1	13.8	11.4	-161.80	-369.0	-38.6	868.4	847.8	20.56	42.237	
5,400.0	5,301.5	4,902.1	4,842.9	14.5	11.7	-161.78	-395.0	-45.6	953.1	932.1	20.98	45.418	
5,500.0	5,388.1	4,955.3	4,888.8	15.3	12.1	-161.76	-421.1	-52.6	1,037.7	1,016.3	21.43	48.435	
5,600.0	5,474.7	5,008.5	4,934.7	16.0	12.4	-161.74	-447.1	-59.6	1,122.4	1,100.5	21.87	51.310	
5,700.0	5,561.4	5,061.7	4,980.5	16.8	12.8	-161.73	-473.2	-66.6	1,207.1	1,184.7	22.34	54.034	
5,800.0	5,648.0	5,114.9	5,026.4	17.6	13.1	-161.72	-499.2	-73.6	1,291.7	1,268.9	22.81	56.626	
5,900.0	5,734.6	5,168.1	5,072.3	18.5	13.5	-161.71	-525.2	-80.5	1,376.4	1,353.1	23.30	59.083	
6,000.0	5,821.3	5,221.3	5,118.2	19.3	13.9	-161.70	-551.3	-87.5	1,461.1	1,437.3	23.79	61.419	
6,100.0	5,907.9	5,274.5	5,164.0	20.2	14.3	-161.69	-577.3	-94.5	1,545.7	1,521.5	24.29	63.637	
6,200.0	5,994.5	5,327.7	5,209.9	21.0	14.7	-161.68	-603.4	-101.5	1,630.4	1,605.6	24.80	65.744	
6,300.0	6,081.2	5,380.9	5,255.8	21.9	15.1	-161.67	-629.4	-108.5	1,715.1	1,689.8	25.32	67.747	
6,400.0	6,167.8	5,434.1	5,301.6	22.8	15.5	-161.67	-655.5	-115.5	1,799.8	1,773.9	25.84	69.650	
6,500.0	6,254.4	5,487.3	5,347.5	23.7	15.9	-161.66	-681.5	-122.5	1,884.4	1,858.1	26.37	71.463	
6,600.0	6,341.1	5,540.5	5,393.4	24.6	16.4	-161.66	-707.5	-129.4	1,969.1	1,942.2	26.91	73.184	
6,700.0	6,427.7	5,593.7	5,439.2	25.5	16.8	-161.65	-733.6	-136.4	2,053.8	2,026.3	27.45	74.827	
6,800.0	6,514.4	5,647.0	5,485.1	26.4	17.3	-161.65	-759.6	-143.4	2,138.4	2,110.4	27.99	76.387	
6,900.0	6,601.0	5,700.2	5,531.0	27.4	17.7	-161.64	-785.7	-150.4	2,223.1	2,194.6	28.55	77.878	
7,000.0	6,687.6	5,753.4	5,576.9	28.3	18.1	-161.64	-811.7	-157.4	2,307.8	2,278.7	29.10	79.295	
7,100.0	6,774.7	5,806.1	5,622.3	29.1	18.6	167.07	-837.5	-164.3	2,392.4	2,363.0	29.35	81.522	
7,200.0	6,861.3	5,855.5	5,664.9	29.7	19.0	128.42	-861.7	-170.8	2,474.8	2,441.5	33.33	74.248	
7,300.0	6,943.0	5,899.2	5,702.6	30.3	19.4	100.91	-883.1	-176.5	2,551.6	2,515.1	36.54	69.834	
7,400.0	7,015.6	5,934.8	5,733.3	30.6	19.7	83.20	-900.5	-181.2	2,619.7	2,582.8	36.92	70.964	
7,500.0	7,075.5	5,960.5	5,755.5	30.9	19.9	72.05	-913.1	-184.6	2,676.9	2,641.8	35.07	76.333	
7,600.0	7,119.6	5,975.1	5,768.0	31.0	20.1	65.15	-920.2	-186.5	2,721.2	2,688.9	32.26	84.360	
7,700.0	7,145.6	5,977.7	5,770.3	31.1	20.1	61.20	-921.5	-186.9	2,751.2	2,721.3	29.94	91.888	
7,800.0	7,152.4	5,968.5	5,762.3	31.1	20.0	59.66	-917.0	-185.6	2,766.2	2,736.8	29.45	93.946	
7,900.0	7,152.4	5,955.1	5,750.8	31.1	19.9	59.38	-910.4	-183.9	2,778.1	2,747.7	30.41	91.342	
8,000.0	7,152.4	5,941.7	5,739.2	31.3	19.8	59.11	-903.9	-182.1	2,793.5	2,761.8	31.63	88.307	
8,100.0	7,152.4	5,928.4	5,727.7	31.6	19.7	58.83	-897.4	-180.4	2,812.2	2,779.2	33.05	85.090	
8,200.0	7,152.4	5,915.0	5,716.2	32.2	19.5	58.56	-890.8	-178.6	2,834.3	2,799.7	34.62	81.873	
8,300.0	7,152.4	5,901.6	5,704.7	33.2	19.4	58.28	-884.3	-176.9	2,859.7	2,823.4	36.30	78.771	
8,400.0	7,152.4	5,888.3	5,693.1	34.6	19.3	58.01	-877.7	-175.1	2,888.2	2,850.1	38.08	75.850	
8,500.0	7,152.4	5,874.9	5,681.6	36.4	19.2	57.73	-871.2	-173.3	2,919.9	2,879.9	39.92	73.143	
8,600.0	7,152.4	5,861.5	5,670.1	38.4	19.1	57.46	-864.6	-171.6	2,954.5	2,912.7	41.81	70.661	
8,700.0	7,152.4	5,848.1	5,658.6	40.6	19.0	57.18	-858.1	-169.8	2,992.0	2,948.2	43.74	68.400	
8,800.0	7,152.4	5,834.8	5,647.0	42.9	18.8	56.91	-851.5	-168.1	3,032.2	2,986.5	45.70	66.351	
8,900.0	7,152.4	5,821.4	5,635.5	45.2	18.7	56.63	-845.0	-166.3	3,075.2	3,027.5	47.68	64.498	
9,000.0	7,152.4	5,808.0	5,624.0	47.6	18.6	56.36	-838.5	-164.6	3,120.7	3,071.0	49.67	62.827	
9,100.0	7,152.4	5,794.7	5,612.5	50.1	18.5	56.08	-831.9	-162.8	3,168.6	3,117.0	51.67	61.319	
9,200.0	7,152.4	5,781.3	5,600.9	52.6	18.4	55.81	-825.4	-161.1	3,218.9	3,165.2	53.68	59.962	
9,300.0	7,152.4	9,534.4	7,321.4	55.2	56.2	92.96	-1,797.5	1,590.5	3,268.8	3,162.2	106.58	30.670	
9,400.0	7,152.4	9,634.4	7,321.4	57.7	58.6	92.96	-1,797.3	1,690.5	3,269.1	3,157.2	111.83	29.232	
9,500.0	7,152.4	9,734.4	7,321.4	60.3	61.1	92.96	-1,797.1	1,790.5	3,269.3	3,152.2	117.11	27.916	
9,600.0	7,152.4	9,834.4	7,321.4	62.9	63.6	92.96	-1,796.8	1,890.5	3,269.6	3,147.1	122.42	26.708	
9,700.0	7,152.4	9,934.4	7,321.4	65.5	66.2	92.96	-1,796.6	1,990.5	3,269.8	3,142.1	127.76	25.594	
9,800.0	7,152.4	10,034.4	7,321.4	68.2	68.7	92.96	-1,796.4	2,090.5	3,270.1	3,137.0	133.11	24.566	
9,900.0	7,152.4	10,134.4	7,321.4	70.8	71.3	92.96	-1,796.1	2,190.5	3,270.3	3,131.8	138.49	23.614	
10,000.0	7,152.4	10,234.4	7,321.4	73.5	73.9	92.96	-1,795.9	2,290.5	3,270.6	3,126.7	143.88	22.731	
10,100.0	7,152.4	10,334.4	7,321.4	76.2	76.6	92.96	-1,795.7	2,390.5	3,270.8	3,121.6	149.29	21.909	
10,200.0	7,152.4	10,434.4	7,321.4	78.9	79.2	92.96	-1,795.4	2,490.5	3,271.1	3,116.4	154.72	21.143	
10,300.0	7,152.4	10,534.4	7,321.4	81.6	81.9	92.96	-1,795.2	2,590.5	3,271.4	3,111.2	160.15	20.427	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle 1C 11-002HN
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 1C 11-002HN	**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 1C 11-259HC - Wellbore #1 - Plan #1 (12-10-13)

Offset Site Error: 0.0ft

Survey Program: 0-MWD

Offset Well Error: 0.0ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,152.4	10,634.4	7,321.4	84.3	84.5	92.96	-1,795.0	2,690.5	3,271.6	3,106.0	165.60	19.756	
10,500.0	7,152.4	10,734.4	7,321.4	87.0	87.2	92.96	-1,794.7	2,790.5	3,271.9	3,100.8	171.06	19.127	
10,600.0	7,152.4	10,834.4	7,321.4	89.7	89.9	92.96	-1,794.5	2,890.5	3,272.1	3,095.6	176.52	18.537	
10,700.0	7,152.4	10,934.4	7,321.4	92.4	92.5	92.96	-1,794.3	2,990.5	3,272.4	3,090.4	182.00	17.980	
10,800.0	7,152.4	11,034.4	7,321.4	95.1	95.2	92.96	-1,794.0	3,090.5	3,272.6	3,085.2	187.48	17.456	
10,900.0	7,152.4	11,134.4	7,321.4	97.8	97.9	92.96	-1,793.8	3,190.5	3,272.9	3,079.9	192.97	16.961	
11,000.0	7,152.4	11,234.4	7,321.4	100.6	100.6	92.96	-1,793.5	3,290.5	3,273.2	3,074.7	198.46	16.492	
11,100.0	7,152.4	11,334.4	7,321.4	103.3	103.4	92.96	-1,793.3	3,390.5	3,273.4	3,069.4	203.97	16.049	
11,200.0	7,152.4	11,434.4	7,321.4	106.0	106.1	92.96	-1,793.1	3,490.5	3,273.7	3,064.2	209.47	15.628	
11,300.0	7,152.4	11,534.4	7,321.4	108.8	108.8	92.96	-1,792.8	3,590.5	3,273.9	3,058.9	214.98	15.229	
11,400.0	7,152.4	11,634.4	7,321.4	111.5	111.5	92.96	-1,792.6	3,690.5	3,274.2	3,053.7	220.50	14.849	
11,500.0	7,152.4	11,734.4	7,321.4	114.3	114.2	92.96	-1,792.4	3,790.5	3,274.4	3,048.4	226.02	14.487	
11,600.0	7,152.4	11,834.4	7,321.4	117.0	117.0	92.96	-1,792.1	3,890.5	3,274.7	3,043.1	231.55	14.143	
11,700.0	7,152.4	11,934.4	7,321.4	119.8	119.7	92.96	-1,791.9	3,990.5	3,274.9	3,037.9	237.07	13.814	
11,800.0	7,152.4	12,034.4	7,321.4	122.5	122.4	92.96	-1,791.7	4,090.5	3,275.2	3,032.6	242.61	13.500	
11,900.0	7,152.4	12,134.4	7,321.4	125.3	125.2	92.96	-1,791.4	4,190.5	3,275.5	3,027.3	248.14	13.200	
12,000.0	7,152.4	12,234.4	7,321.4	128.1	127.9	92.96	-1,791.2	4,290.5	3,275.7	3,022.0	253.68	12.913	
12,100.0	7,152.4	12,334.4	7,321.4	130.8	130.4	92.96	-1,791.0	4,390.5	3,276.0	3,017.1	258.88	12.655	
12,159.3	7,152.4	12,369.5	7,321.4	132.5	131.0	92.96	-1,790.9	4,425.6	3,276.2	3,015.1	261.14	12.546	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle LC 11-002HN
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 11-002HN	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	177.42	-99.1	4.5	99.2				
100.0	100.0	100.0	100.0	0.1	0.1	177.42	-99.1	4.5	99.2	99.0	0.22	441.307	
200.0	200.0	200.0	200.0	0.3	0.3	177.42	-99.1	4.5	99.2	98.5	0.67	147.102	
300.0	300.0	300.0	300.0	0.6	0.6	177.42	-99.1	4.5	99.2	98.1	1.12	88.261	
400.0	400.0	400.0	400.0	0.8	0.8	177.42	-99.1	4.5	99.2	97.6	1.57	63.044	
500.0	500.0	500.0	500.0	1.0	1.0	177.42	-99.1	4.5	99.2	97.2	2.02	49.034	
600.0	600.0	600.0	600.0	1.2	1.2	177.42	-99.1	4.5	99.2	96.7	2.47	40.119	
700.0	700.0	700.0	700.0	1.5	1.5	177.42	-99.1	4.5	99.2	96.3	2.92	33.947	
800.0	800.0	800.0	800.0	1.7	1.7	177.42	-99.1	4.5	99.2	95.8	3.37	29.420	
900.0	900.0	900.0	900.0	1.9	1.9	177.42	-99.1	4.5	99.2	95.4	3.82	25.959	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	177.42	-99.1	4.5	99.2	94.9	4.27	23.227	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	177.42	-99.1	4.5	99.2	94.5	4.72	21.015	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	177.42	-99.1	4.5	99.2	94.0	5.17	19.187	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	177.42	-99.1	4.5	99.2	93.6	5.62	17.652	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	177.42	-99.1	4.5	99.2	93.1	6.07	16.345	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	177.42	-99.1	4.5	99.2	92.7	6.52	15.217	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	177.42	-99.1	4.5	99.2	92.2	6.97	14.236	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	177.42	-99.1	4.5	99.2	91.8	7.42	13.373	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	177.42	-99.1	4.5	99.2	91.3	7.87	12.609	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	177.42	-99.1	4.5	99.2	90.9	8.32	11.927	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	177.42	-99.1	4.5	99.2	90.4	8.77	11.316	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	177.42	-99.1	4.5	99.2	90.0	9.22	10.764	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	177.42	-99.1	4.5	99.2	89.5	9.66	10.263	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	177.42	-99.1	4.5	99.2	89.1	10.11	9.807	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	177.42	-99.1	4.5	99.2	88.6	10.56	9.390	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	177.42	-99.1	4.5	99.2	88.2	11.01	9.006	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	177.42	-99.1	4.5	99.2	87.7	11.46	8.653	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	177.42	-99.1	4.5	99.2	87.3	11.91	8.327	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	177.42	-99.1	4.5	99.2	86.8	12.36	8.024	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	177.42	-99.1	4.5	99.2	86.4	12.81	7.742	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	177.42	-99.1	4.5	99.2	85.9	13.26	7.480	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	177.42	-99.1	4.5	99.2	85.5	13.71	7.235	CC, ES
3,200.0	3,200.0	3,195.1	3,195.1	7.1	7.0	177.74	-101.4	4.0	101.6	87.5	14.12	7.195	SF
3,300.0	3,300.0	3,289.8	3,289.5	7.3	7.2	178.63	-108.3	2.6	108.9	94.4	14.51	7.502	
3,400.0	3,400.0	3,383.5	3,382.5	7.5	7.4	179.87	-119.7	0.3	120.9	106.0	14.90	8.118	
3,500.0	3,500.0	3,475.9	3,473.5	7.8	7.5	-178.77	-135.2	-2.9	137.8	122.5	15.29	9.015	
3,600.0	3,600.0	3,566.5	3,561.9	8.0	7.7	-177.46	-154.6	-6.9	159.4	143.7	15.68	10.167	
3,700.0	3,700.0	3,655.1	3,647.3	8.2	7.9	-176.28	-177.6	-11.5	185.6	169.5	16.07	11.548	
3,800.0	3,800.0	3,741.2	3,729.2	8.4	8.2	-175.27	-203.6	-16.8	216.2	199.7	16.46	13.131	
3,900.0	3,900.0	3,824.7	3,807.5	8.7	8.5	-174.42	-232.2	-22.7	251.0	234.1	16.86	14.891	
4,000.0	4,000.0	3,900.0	3,876.8	8.9	8.8	-173.76	-260.9	-28.5	289.9	272.7	17.24	16.819	
4,100.0	4,100.0	3,982.3	3,951.2	9.1	9.1	-155.79	-295.2	-35.5	334.6	317.0	17.60	19.011	
4,200.0	4,199.6	4,054.0	4,014.8	9.3	9.5	-154.98	-327.7	-42.1	387.0	369.1	17.92	21.601	
4,300.0	4,298.8	4,123.7	4,075.5	9.6	9.9	-154.28	-361.5	-49.0	446.2	428.0	18.19	24.535	
4,400.0	4,397.1	4,200.7	4,142.0	9.8	10.4	-153.73	-399.3	-56.7	509.9	491.5	18.43	27.666	
4,500.0	4,494.3	4,274.5	4,205.8	10.0	10.9	-153.22	-435.6	-64.1	577.2	558.6	18.63	30.976	
4,600.0	4,590.2	4,344.9	4,266.7	10.3	11.4	-152.70	-470.3	-71.2	647.9	629.1	18.80	34.459	
4,700.0	4,684.4	4,411.6	4,324.4	10.6	11.9	-152.12	-503.1	-77.9	722.0	703.0	18.95	38.108	
4,800.0	4,776.8	4,474.6	4,378.9	11.0	12.4	-151.44	-534.1	-84.2	799.1	780.0	19.08	41.892	
4,900.0	4,867.1	4,533.7	4,430.0	11.4	12.8	-150.59	-563.2	-90.1	879.2	860.0	19.21	45.771	
5,000.0	4,954.9	4,588.6	4,477.5	11.9	13.3	-149.58	-590.2	-95.6	962.1	942.7	19.37	49.664	
5,100.0	5,041.6	4,641.5	4,523.2	12.5	13.7	-150.69	-616.2	-100.9	1,046.3	1,026.5	19.75	52.980	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle TC 11-002HN
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 TC 11-002HN	**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 TC 11-279HN - Wellbore #1 - Plan #1 (12-10-13) — Offset Site Error: 0.0ft

Survey Program: 0-MWD — Offset Well Error: 0.0ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,128.2	4,694.4	4,569.0	13.2	14.1	-151.64	-642.2	-106.2	1,130.6	1,110.4	20.15	56.118	
5,300.0	5,214.8	4,747.2	4,614.7	13.8	14.5	-152.46	-688.2	-111.5	1,215.0	1,194.4	20.57	59.075	
5,400.0	5,301.5	4,800.1	4,660.4	14.5	15.0	-153.18	-694.2	-116.9	1,299.4	1,278.4	21.00	61.874	
5,500.0	5,388.1	4,853.0	4,706.1	15.3	15.4	-153.81	-720.2	-122.2	1,383.9	1,362.5	21.45	64.510	
5,600.0	5,474.7	4,905.9	4,751.9	16.0	15.9	-154.37	-746.2	-127.5	1,468.5	1,446.5	21.92	67.006	
5,700.0	5,561.4	4,958.7	4,797.6	16.8	16.3	-154.87	-772.3	-132.8	1,553.0	1,530.6	22.39	69.360	
5,800.0	5,648.0	5,011.6	4,843.3	17.6	16.8	-155.32	-798.3	-138.1	1,637.6	1,614.8	22.88	71.590	
5,900.0	5,734.6	5,064.5	4,889.0	18.5	17.2	-155.72	-824.3	-143.4	1,722.3	1,698.9	23.37	73.696	
6,000.0	5,821.3	5,117.4	4,934.8	19.3	17.7	-156.09	-850.3	-148.7	1,806.9	1,783.1	23.87	75.692	
6,100.0	5,907.9	5,170.2	4,980.5	20.2	18.2	-156.43	-876.3	-154.0	1,891.6	1,867.2	24.38	77.580	
6,200.0	5,994.5	5,223.1	5,026.2	21.0	18.6	-156.73	-902.3	-159.3	1,976.3	1,951.4	24.90	79.370	
6,300.0	6,081.2	5,276.0	5,071.9	21.9	19.1	-157.02	-928.3	-164.6	2,061.0	2,035.6	25.42	81.068	
6,400.0	6,167.8	5,328.8	5,117.7	22.8	19.6	-157.28	-954.3	-169.9	2,145.8	2,119.8	25.95	82.678	
6,500.0	6,254.4	5,381.7	5,163.4	23.7	20.1	-157.52	-980.3	-175.2	2,230.5	2,204.0	26.49	84.208	
6,600.0	6,341.1	5,434.6	5,209.1	24.6	20.5	-157.74	-1,006.4	-180.5	2,315.2	2,288.2	27.03	85.661	
6,700.0	6,427.7	5,487.5	5,254.9	25.5	21.0	-157.95	-1,032.4	-185.8	2,400.0	2,372.4	27.57	87.044	
6,800.0	6,514.4	5,540.3	5,300.6	26.4	21.5	-158.14	-1,058.4	-191.1	2,484.8	2,456.6	28.12	88.358	
6,900.0	6,601.0	5,593.2	5,346.3	27.4	22.0	-158.32	-1,084.4	-196.4	2,569.5	2,540.9	28.67	89.612	
7,000.0	6,687.6	5,646.1	5,392.0	28.3	22.5	-158.49	-1,110.4	-201.7	2,654.3	2,625.1	29.23	90.803	
7,100.0	6,774.7	5,698.6	5,437.5	29.1	23.0	169.79	-1,136.3	-207.0	2,739.2	2,709.8	29.40	93.181	
7,200.0	6,861.3	5,748.6	5,480.7	29.7	23.4	130.16	-1,160.8	-212.0	2,822.4	2,787.9	34.51	81.780	
7,300.0	6,943.0	5,793.5	5,519.5	30.3	23.8	101.83	-1,182.9	-216.5	2,900.3	2,861.6	38.71	74.917	
7,400.0	7,015.6	5,830.9	5,551.9	30.6	24.2	83.63	-1,201.3	-220.2	2,969.8	2,930.4	39.41	75.364	
7,500.0	7,075.5	5,859.0	5,576.1	30.9	24.4	72.23	-1,215.1	-223.0	3,028.1	2,990.8	37.36	81.045	
7,600.0	7,119.6	5,876.3	5,591.1	31.0	24.6	65.22	-1,223.6	-224.8	3,073.5	3,039.4	34.09	90.155	
7,700.0	7,145.6	5,881.9	5,596.0	31.1	24.7	61.27	-1,226.4	-225.3	3,104.2	3,072.9	31.27	99.261	
7,800.0	7,152.4	5,875.7	5,590.6	31.1	24.6	59.78	-1,223.4	-224.7	3,119.5	3,089.0	30.50	102.264	
7,900.0	7,152.4	5,865.4	5,581.7	31.1	24.5	59.59	-1,218.3	-223.7	3,131.4	3,099.9	31.51	99.374	
8,000.0	7,152.4	5,855.2	5,572.8	31.3	24.4	59.40	-1,213.3	-222.7	3,146.3	3,113.6	32.77	96.014	
8,100.0	7,152.4	5,844.9	5,564.0	31.6	24.3	59.21	-1,208.2	-221.6	3,164.3	3,130.1	34.23	92.449	
8,200.0	7,152.4	5,834.6	5,555.1	32.2	24.2	59.03	-1,203.2	-220.6	3,185.3	3,149.5	35.84	88.872	
8,300.0	7,152.4	5,824.4	5,546.2	33.2	24.1	58.84	-1,198.1	-219.6	3,209.3	3,171.7	37.58	85.408	
8,400.0	7,152.4	5,814.1	5,537.3	34.6	24.0	58.65	-1,193.0	-218.5	3,236.1	3,196.7	39.40	82.130	
8,500.0	7,152.4	5,803.8	5,528.4	36.4	23.9	58.46	-1,188.0	-217.5	3,265.8	3,224.5	41.30	79.074	
8,600.0	7,152.4	5,793.5	5,519.6	38.4	23.8	58.27	-1,182.9	-216.5	3,298.2	3,254.9	43.25	76.252	
8,700.0	7,152.4	5,783.3	5,510.7	40.6	23.7	58.08	-1,177.9	-215.4	3,333.2	3,288.0	45.25	73.664	
8,800.0	7,152.4	5,773.0	5,501.8	42.9	23.6	57.90	-1,172.8	-214.4	3,370.8	3,323.5	47.28	71.301	
8,900.0	7,152.4	5,762.7	5,492.9	45.2	23.5	57.71	-1,167.8	-213.4	3,410.9	3,361.6	49.33	69.146	
9,000.0	7,152.4	5,752.5	5,484.0	47.6	23.5	57.52	-1,162.7	-212.4	3,453.4	3,402.0	51.40	67.186	
9,100.0	7,152.4	5,742.2	5,475.1	50.1	23.4	57.33	-1,157.7	-211.3	3,498.2	3,444.7	53.49	65.404	
9,200.0	7,152.4	5,731.9	5,466.3	52.6	23.3	57.14	-1,152.6	-210.3	3,545.3	3,489.7	55.58	63.783	
9,300.0	7,152.4	9,439.3	7,152.4	55.2	58.4	90.00	-2,107.5	1,590.6	3,574.3	3,467.3	107.01	33.402	
9,400.0	7,152.4	9,539.3	7,152.4	57.7	60.7	90.00	-2,107.2	1,690.6	3,574.6	3,462.4	112.25	31.845	
9,500.0	7,152.4	9,639.3	7,152.4	60.3	63.0	90.00	-2,107.0	1,790.6	3,574.9	3,457.3	117.53	30.417	
9,600.0	7,152.4	9,739.3	7,152.4	62.9	65.4	90.00	-2,106.8	1,890.6	3,575.2	3,452.3	122.83	29.105	
9,700.0	7,152.4	9,839.3	7,152.4	65.5	67.9	90.00	-2,106.6	1,990.6	3,575.4	3,447.3	128.17	27.897	
9,800.0	7,152.4	9,939.3	7,152.4	68.2	70.4	90.00	-2,106.4	2,090.6	3,575.7	3,442.2	133.52	26.780	
9,900.0	7,152.4	10,039.3	7,152.4	70.8	72.9	90.00	-2,106.1	2,190.6	3,576.0	3,437.1	138.90	25.745	
10,000.0	7,152.4	10,139.3	7,152.4	73.5	75.4	90.00	-2,105.9	2,290.6	3,576.2	3,432.0	144.29	24.785	
10,100.0	7,152.4	10,239.3	7,152.4	76.2	78.0	90.00	-2,105.7	2,390.6	3,576.5	3,426.8	149.70	23.891	
10,200.0	7,152.4	10,339.3	7,152.4	78.9	80.6	90.00	-2,105.5	2,490.6	3,576.8	3,421.7	155.12	23.058	
10,300.0	7,152.4	10,439.3	7,152.4	81.6	83.2	90.00	-2,105.3	2,590.6	3,577.1	3,416.5	160.56	22.279	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle TC 11-002HN
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 TC 11-002HN	**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 TC 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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,152.4	10,539.3	7,152.4	84.3	85.8	90.00	-2,105.0	2,690.6	3,577.3	3,411.3	166.01	21.549	
10,500.0	7,152.4	10,639.3	7,152.4	87.0	88.4	90.00	-2,104.8	2,790.6	3,577.6	3,406.1	171.47	20.865	
10,600.0	7,152.4	10,739.3	7,152.4	89.7	91.0	90.00	-2,104.6	2,890.6	3,577.9	3,400.9	176.93	20.222	
10,700.0	7,152.4	10,839.3	7,152.4	92.4	93.7	90.00	-2,104.4	2,990.6	3,578.2	3,395.7	182.41	19.616	
10,800.0	7,152.4	10,939.3	7,152.4	95.1	96.3	90.00	-2,104.2	3,090.6	3,578.4	3,390.5	187.89	19.045	
10,900.0	7,152.4	11,039.3	7,152.4	97.8	99.0	90.00	-2,104.0	3,190.6	3,578.7	3,385.3	193.38	18.506	
11,000.0	7,152.4	11,139.3	7,152.4	100.6	101.7	90.00	-2,103.7	3,290.6	3,579.0	3,380.1	198.88	17.995	
11,100.0	7,152.4	11,239.3	7,152.4	103.3	104.4	90.00	-2,103.5	3,390.6	3,579.2	3,374.9	204.39	17.512	
11,200.0	7,152.4	11,339.3	7,152.4	106.0	107.1	90.00	-2,103.3	3,490.6	3,579.5	3,369.6	209.90	17.054	
11,300.0	7,152.4	11,439.3	7,152.4	108.8	109.7	90.00	-2,103.1	3,590.6	3,579.8	3,364.4	215.41	16.618	
11,400.0	7,152.4	11,539.3	7,152.4	111.5	112.4	90.00	-2,102.9	3,690.6	3,580.1	3,359.1	220.93	16.204	
11,500.0	7,152.4	11,639.3	7,152.4	114.3	115.2	90.00	-2,102.6	3,790.6	3,580.3	3,353.9	226.45	15.810	
11,600.0	7,152.4	11,739.3	7,152.4	117.0	117.9	90.00	-2,102.4	3,890.6	3,580.6	3,348.6	231.98	15.435	
11,700.0	7,152.4	11,839.3	7,152.4	119.8	120.6	90.00	-2,102.2	3,990.6	3,580.9	3,343.4	237.52	15.076	
11,800.0	7,152.4	11,939.3	7,152.4	122.5	123.3	90.00	-2,102.0	4,090.6	3,581.2	3,338.1	243.05	14.734	
11,900.0	7,152.4	12,039.3	7,152.4	125.3	126.0	90.00	-2,101.8	4,190.6	3,581.4	3,332.8	248.59	14.407	
12,000.0	7,152.4	12,139.3	7,152.4	128.1	128.7	90.00	-2,101.5	4,290.6	3,581.7	3,327.6	254.13	14.094	
12,100.0	7,152.4	12,239.3	7,152.4	130.8	131.1	90.00	-2,101.3	4,390.6	3,582.0	3,322.7	259.29	13.815	
12,159.3	7,152.4	12,273.0	7,152.4	132.5	131.8	90.00	-2,101.3	4,424.3	3,582.2	3,320.7	261.53	13.697	

ENSIGN Directional

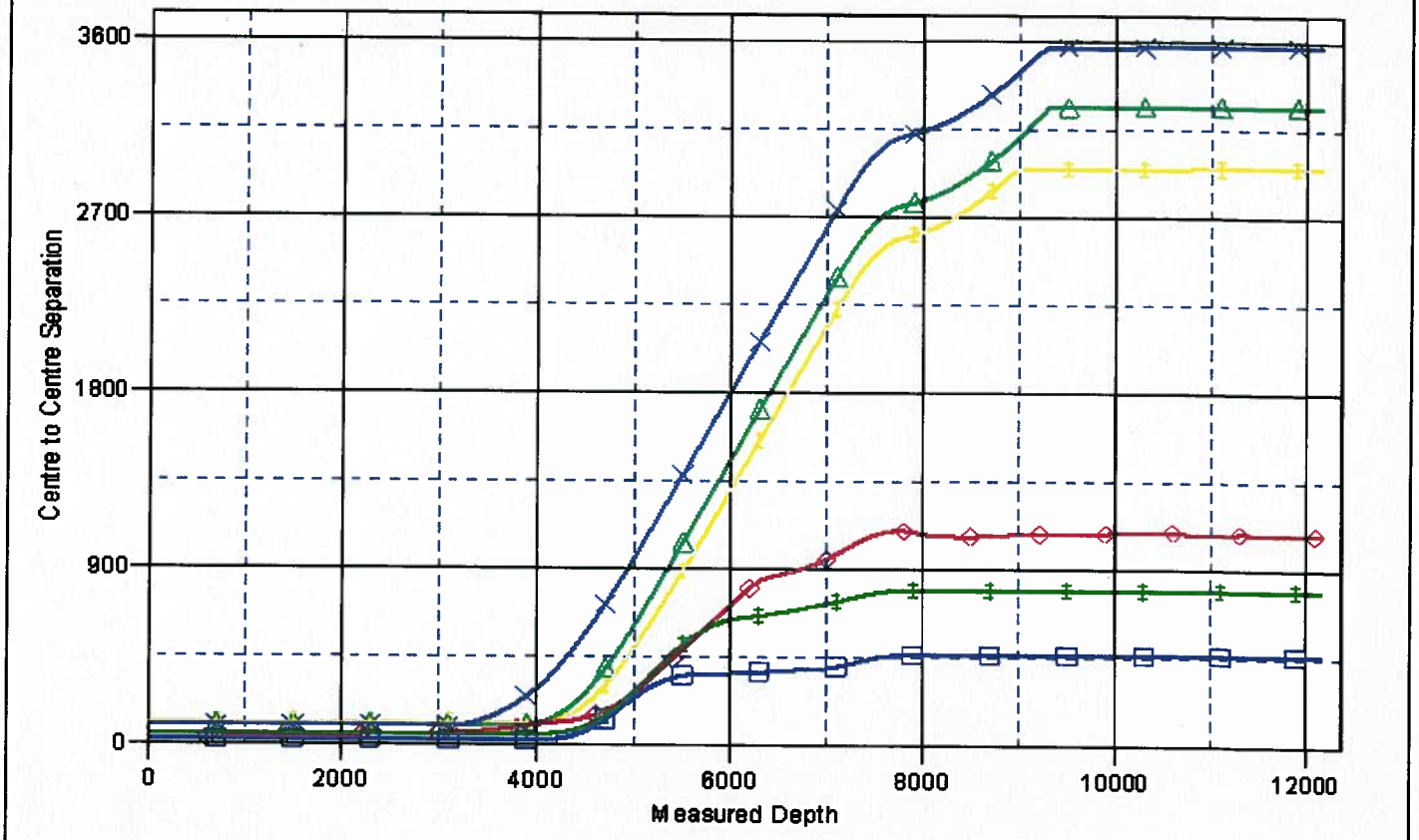
Anticollision Report

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle LC 11-002HN
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 11-002HN	**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 11-002HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

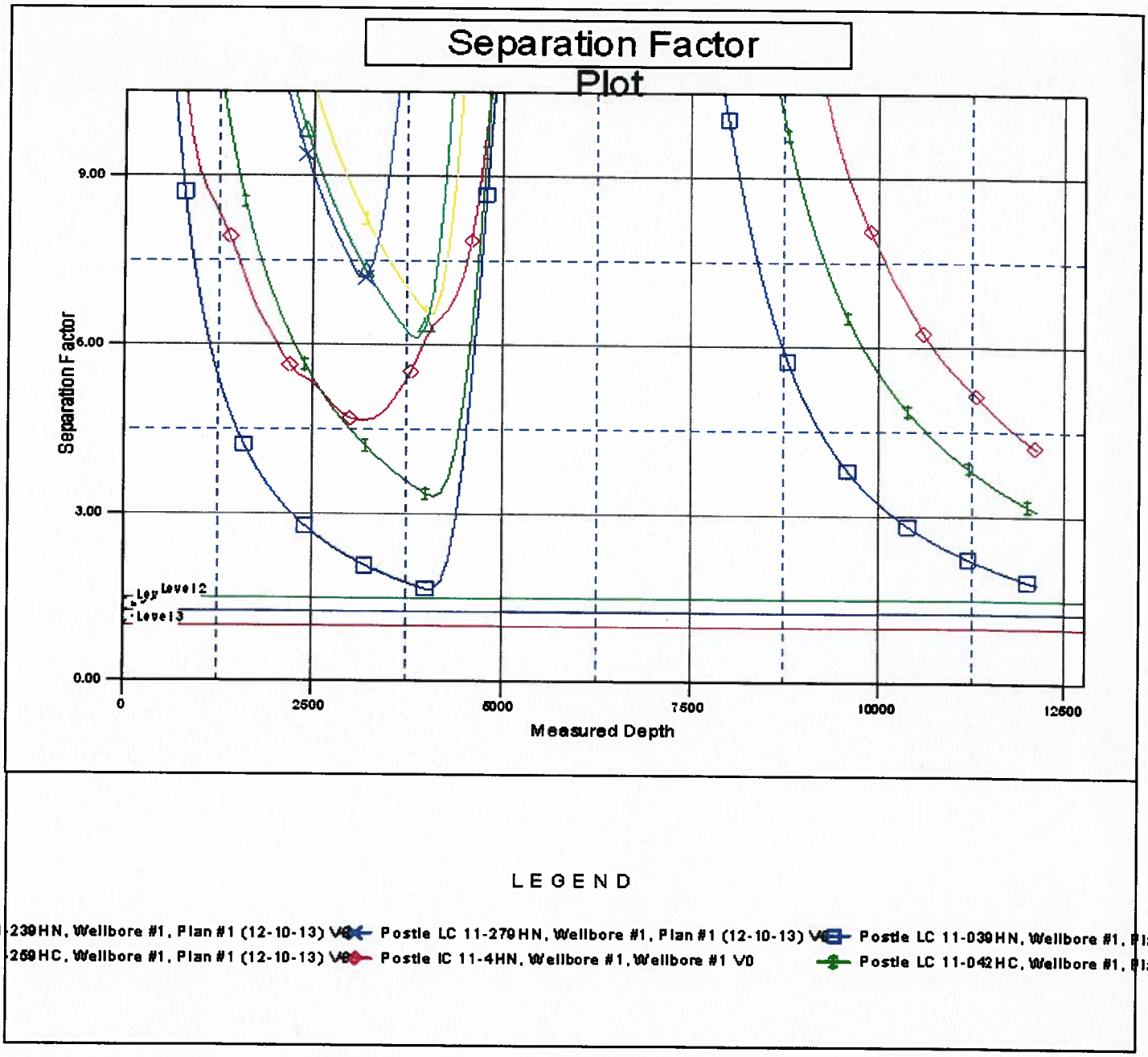
11-239HN, Wellbore #1, Plan #1 (12-10-13) V0
Postle LC 11-279HN, Wellbore #1, Plan #1 (12-10-13) V0
Postle LC 11-039HN, Wellbore #1, Pl:
11-259HC, Wellbore #1, Plan #1 (12-10-13) V0
Postle IC 11-4HN, Wellbore #1, Wellbore #1 V0
Postle LC 11-042HC, Wellbore #1, Pl:

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Postle LC 11-002HN
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 11-002HN	**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 11-002HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.34°



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