

Great Western

Well Name: **Postle IC 11-382HN**

Surface Location: Postle East Pad Sec.12-T3N-R68W

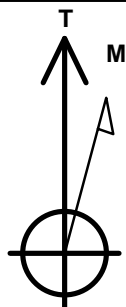
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4925.1

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1328801.07	3150763.05	40.234697	-104.959994	
RKB - 16.5' WELL @ 4941.6ft (RKB - 16.5')						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 438'FSL & 250'FWL, Sec.12	1.0	0.0	0.0	Point
BHL 1'FSL & 470'FWL, Sec.11	7100.7	-442.5	-5037.5	Point
Entry Pt. 1'FSL & 460'FEL, Sec.11	7100.7	-440.1	-712.0	Point



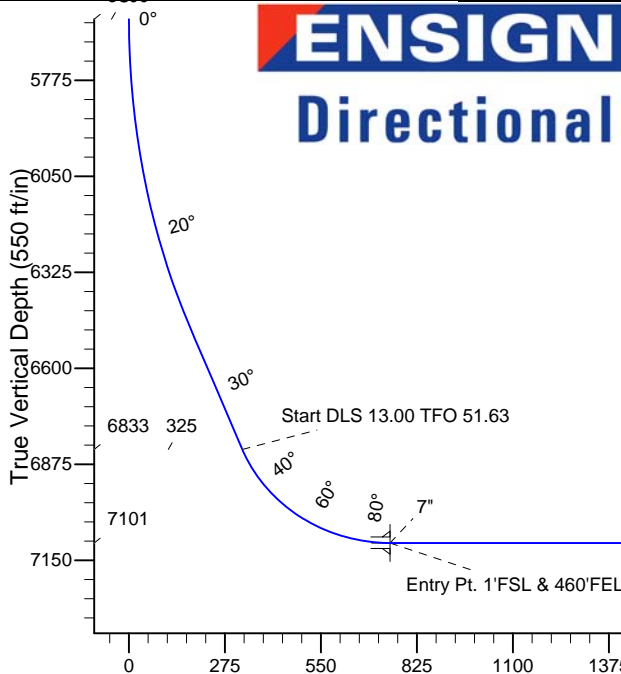
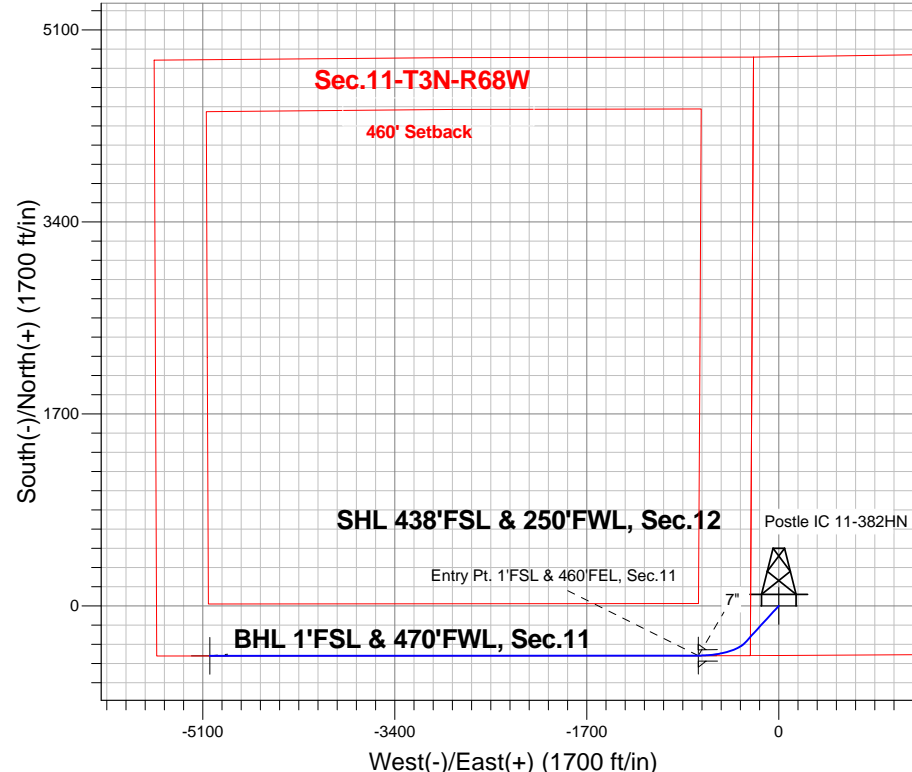
Azimuths to True North
Magnetic North: 8.64°

Magnetic Field
Strength: 52774.7snT
Dip Angle: 66.80°
Date: 10/23/2013
Model: IGRF2010

Postle East Pad Sec.12-T3N-R68W
Postle IC 11-382HN
Plan #1 (10-23-13)
9:52, October 24 2013

ANNOTATIONS

TVD	MD	Annotation
5600.0	5600.0	KOP - Start Build 3.25
6833.0	6929.7	Start DLS 13.00 TFO 51.63
7100.7	11794.9	TD at 11794.9



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	5600.0	0.00	0.00	5600.0	0.0	0.0	0.00	0.00	0.0	
3	6526.4	30.15	222.45	6484.3	-175.7	-160.7	3.25	222.45	175.5	
4	6929.7	30.15	222.45	6833.0	-325.2	-297.4	0.00	0.00	324.7	
5	7469.5	90.00	269.97	7100.7	-440.1	-712.0	13.00	51.63	747.8	Entry Pt. 1'FSL & 460'FEL, Sec.11
6	7503.1	90.00	269.97	7100.7	-440.1	-745.7	0.01	-90.00	781.3	
7	11794.9	90.00	269.97	7100.7	-442.5	-5037.5	0.00	0.00	5056.8	BHL 1'FSL & 470'FWL, Sec.11

Vertical Section at 264.98° (550 ft/in)



Great Western

Sec.12-T3N-R68W

Postle East Pad Sec.12-T3N-R68W

Postle IC 11-382HN

Wellbore #1

Plan: Plan #1 (10-23-13)

Standard Planning Report

24 October, 2013

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,526.4	30.15	222.45	6,484.3	-175.7	-160.7	3.25	3.25	0.00	222.45	
6,929.7	30.15	222.45	6,833.0	-325.2	-297.4	0.00	0.00	0.00	0.00	
7,469.5	90.00	269.97	7,100.7	-440.1	-712.0	13.00	11.09	8.80	51.63	Entry Pt. 1'FSL & 40'FSL
7,503.1	90.00	269.97	7,100.7	-440.1	-745.7	0.01	0.00	-0.01	-90.00	
11,794.9	90.00	269.97	7,100.7	-442.5	-5,037.5	0.00	0.00	0.00	0.00	BHL 1'FSL & 470'FSL

Database:	Landmark	Local Co-ordinate Reference:	Well Postle IC 11-382HN
Company:	Great Western	TVD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Project:	Sec.12-T3N-R68W	MD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Site:	Postle East Pad Sec.12-T3N-R68W	North Reference:	True
Well:	Postle IC 11-382HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-23-13)		

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 438'FSL & 250'FWL, Sec.12									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Postle IC 11-382HN
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Project:	Sec.12-T3N-R68W	MD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Site:	Postle East Pad Sec.12-T3N-R68W	North Reference:	True
Well:	Postle IC 11-382HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-23-13)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 3.25									
5,700.0	3.25	222.45	5,699.9	-2.1	-1.9	2.1	3.25	3.25	0.00
5,800.0	6.51	222.45	5,799.6	-8.4	-7.7	8.4	3.25	3.25	0.00
5,900.0	9.76	222.45	5,898.6	-18.8	-17.2	18.8	3.25	3.25	0.00
6,000.0	13.02	222.45	5,996.6	-33.4	-30.5	33.3	3.25	3.25	0.00
6,100.0	16.27	222.45	6,093.3	-52.0	-47.6	52.0	3.25	3.25	0.00
6,200.0	19.52	222.45	6,188.5	-74.7	-68.3	74.6	3.25	3.25	0.00
6,300.0	22.78	222.45	6,281.7	-101.3	-92.7	101.2	3.25	3.25	0.00
6,400.0	26.03	222.45	6,372.8	-131.8	-120.6	131.6	3.25	3.25	0.00
6,500.0	29.29	222.45	6,461.3	-166.1	-151.9	165.8	3.25	3.25	0.00
6,526.4	30.15	222.45	6,484.3	-175.7	-160.7	175.5	3.25	3.25	0.00
6,600.0	30.15	222.45	6,547.9	-203.0	-185.7	202.7	0.00	0.00	0.00
6,700.0	30.15	222.45	6,634.4	-240.0	-219.6	239.7	0.00	0.00	0.00
6,800.0	30.15	222.45	6,720.8	-277.1	-253.5	276.7	0.00	0.00	0.00
6,900.0	30.15	222.45	6,807.3	-314.2	-287.4	313.8	0.00	0.00	0.00
6,929.7	30.15	222.45	6,833.0	-325.2	-297.4	324.7	0.00	0.00	0.00
Start DLS 13.00 TFO 51.63									
7,000.0	36.47	234.55	6,891.8	-350.4	-326.4	355.8	13.01	8.99	17.21
7,100.0	46.89	246.33	6,966.5	-382.4	-384.3	416.3	13.00	10.42	11.78
7,200.0	58.15	254.54	7,027.3	-408.5	-459.0	493.0	13.00	11.27	8.21
7,300.0	69.83	260.92	7,071.1	-427.3	-546.7	581.9	13.00	11.68	6.38
7,400.0	81.70	266.39	7,095.7	-437.9	-642.8	678.6	13.00	11.87	5.47
7,469.5	90.00	269.97	7,100.7	-440.1	-712.0	747.8	12.99	11.94	5.15
7" - Entry Pt. 1'FSL & 460'FEL, Sec.11									
7,500.0	90.00	269.97	7,100.7	-440.1	-742.5	778.2	0.01	0.01	0.00
7,503.1	90.00	269.97	7,100.7	-440.1	-745.7	781.3	0.01	0.00	-0.01
7,600.0	90.00	269.97	7,100.7	-440.1	-842.5	877.8	0.00	0.00	0.00
7,700.0	90.00	269.97	7,100.7	-440.2	-942.5	977.4	0.00	0.00	0.00
7,800.0	90.00	269.97	7,100.7	-440.2	-1,042.5	1,077.0	0.00	0.00	0.00
7,900.0	90.00	269.97	7,100.7	-440.3	-1,142.5	1,176.6	0.00	0.00	0.00
8,000.0	90.00	269.97	7,100.7	-440.3	-1,242.5	1,276.3	0.00	0.00	0.00
8,100.0	90.00	269.97	7,100.7	-440.4	-1,342.5	1,375.9	0.00	0.00	0.00
8,200.0	90.00	269.97	7,100.7	-440.5	-1,442.5	1,475.5	0.00	0.00	0.00
8,300.0	90.00	269.97	7,100.7	-440.5	-1,542.5	1,575.1	0.00	0.00	0.00
8,400.0	90.00	269.97	7,100.7	-440.6	-1,642.5	1,674.8	0.00	0.00	0.00
8,500.0	90.00	269.97	7,100.7	-440.6	-1,742.5	1,774.4	0.00	0.00	0.00
8,600.0	90.00	269.97	7,100.7	-440.7	-1,842.5	1,874.0	0.00	0.00	0.00
8,700.0	90.00	269.97	7,100.7	-440.7	-1,942.5	1,973.6	0.00	0.00	0.00
8,800.0	90.00	269.97	7,100.7	-440.8	-2,042.5	2,073.2	0.00	0.00	0.00
8,900.0	90.00	269.97	7,100.7	-440.9	-2,142.5	2,172.9	0.00	0.00	0.00
9,000.0	90.00	269.97	7,100.7	-440.9	-2,242.5	2,272.5	0.00	0.00	0.00
9,100.0	90.00	269.97	7,100.7	-441.0	-2,342.5	2,372.1	0.00	0.00	0.00
9,200.0	90.00	269.97	7,100.7	-441.0	-2,442.5	2,471.7	0.00	0.00	0.00
9,300.0	90.00	269.97	7,100.7	-441.1	-2,542.5	2,571.3	0.00	0.00	0.00
9,400.0	90.00	269.97	7,100.7	-441.1	-2,642.5	2,671.0	0.00	0.00	0.00
9,500.0	90.00	269.97	7,100.7	-441.2	-2,742.5	2,770.6	0.00	0.00	0.00
9,600.0	90.00	269.97	7,100.7	-441.2	-2,842.5	2,870.2	0.00	0.00	0.00
9,700.0	90.00	269.97	7,100.7	-441.3	-2,942.5	2,969.8	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Postle IC 11-382HN
Company:	Great Western	TVD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Project:	Sec.12-T3N-R68W	MD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Site:	Postle East Pad Sec.12-T3N-R68W	North Reference:	True
Well:	Postle IC 11-382HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-23-13)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,800.0	90.00	269.97	7,100.7	-441.4	-3,042.5	3,069.5	0.00	0.00	0.00	
9,900.0	90.00	269.97	7,100.7	-441.4	-3,142.5	3,169.1	0.00	0.00	0.00	
10,000.0	90.00	269.97	7,100.7	-441.5	-3,242.5	3,268.7	0.00	0.00	0.00	
10,100.0	90.00	269.97	7,100.7	-441.5	-3,342.5	3,368.3	0.00	0.00	0.00	
10,200.0	90.00	269.97	7,100.7	-441.6	-3,442.5	3,467.9	0.00	0.00	0.00	
10,300.0	90.00	269.97	7,100.7	-441.6	-3,542.5	3,567.6	0.00	0.00	0.00	
10,400.0	90.00	269.97	7,100.7	-441.7	-3,642.5	3,667.2	0.00	0.00	0.00	
10,500.0	90.00	269.97	7,100.7	-441.7	-3,742.5	3,766.8	0.00	0.00	0.00	
10,600.0	90.00	269.97	7,100.7	-441.8	-3,842.5	3,866.4	0.00	0.00	0.00	
10,700.0	90.00	269.97	7,100.7	-441.9	-3,942.5	3,966.0	0.00	0.00	0.00	
10,800.0	90.00	269.97	7,100.7	-441.9	-4,042.5	4,065.7	0.00	0.00	0.00	
10,900.0	90.00	269.97	7,100.7	-442.0	-4,142.5	4,165.3	0.00	0.00	0.00	
11,000.0	90.00	269.97	7,100.7	-442.0	-4,242.5	4,264.9	0.00	0.00	0.00	
11,100.0	90.00	269.97	7,100.7	-442.1	-4,342.5	4,364.5	0.00	0.00	0.00	
11,200.0	90.00	269.97	7,100.7	-442.1	-4,442.5	4,464.2	0.00	0.00	0.00	
11,300.0	90.00	269.97	7,100.7	-442.2	-4,542.5	4,563.8	0.00	0.00	0.00	
11,400.0	90.00	269.97	7,100.7	-442.2	-4,642.5	4,663.4	0.00	0.00	0.00	
11,500.0	90.00	269.97	7,100.7	-442.3	-4,742.5	4,763.0	0.00	0.00	0.00	
11,600.0	90.00	269.97	7,100.7	-442.4	-4,842.5	4,862.6	0.00	0.00	0.00	
11,700.0	90.00	269.97	7,100.7	-442.4	-4,942.5	4,962.3	0.00	0.00	0.00	
11,794.9	90.00	269.97	7,100.7	-442.5	-5,037.4	5,056.8	0.00	0.00	0.00	
TD at 11794.9 - BHL 1'FSL & 470'FWL, Sec.11										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,469.5	7,100.7	7"	7	7-1/2	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
5,600.0	5,600.0	0.0	0.0	KOP - Start Build 3.25	
6,929.7	6,833.0	-325.2	-297.4	Start DLS 13.00 TFO 51.63	
11,794.9	7,100.7	-442.5	-5,037.4	TD at 11794.9	



Great Western

Sec.12-T3N-R68W

Postle East Pad Sec.12-T3N-R68W

Postle IC 11-382HN

Wellbore #1

Plan #1 (10-23-13)

Anticollision Report

24 October, 2013

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-382HN
Project:	Sec.12-T3N-R68W	TVD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Reference Site:	Postle East Pad Sec.12-T3N-R68W	MD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-382HN	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 (10-23-13)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (10-23-13)		
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 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 10/23/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	7,215.0	Plan #1 (10-23-13) (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
7,215.0	11,794.9	Plan #1 (10-23-13) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Postle East Pad Sec.12-T3N-R68W						
Postle IC 11-302HN - Wellbore #1 - Plan #1 (10-23-13)	5,433.4	5,433.4	90.0	61.4	3.149	CC, ES
Postle IC 11-302HN - Wellbore #1 - Plan #1 (10-23-13)	5,500.0	5,498.1	90.5	61.6	3.130	SF
Postle IC 11-342HC - Wellbore #1 - Plan #1 (10-23-13)	5,600.0	5,600.0	59.8	30.3	2.028	CC, ES, SF
Postle IC 11-379HN - Wellbore #1 - Plan #1 (10-23-13)	5,600.0	5,600.0	30.6	1.1	1.039	Level 2, CC, ES, SF

Offset Design												
Postle East Pad Sec.12-T3N-R68W - Postle IC 11-302HN - Wellbore #1 - Plan #1 (10-23-13)												
Survey Program: 0-NS-GYRO-MS, 7230-MWD												
Reference	Offset	Semi Major Axis		Distance				Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	0.36	90.0	0.6	90.0			
100.0	100.0	100.0	100.0	0.1	0.1	0.36	90.0	0.6	90.0	89.7	0.27	339.008
200.0	200.0	200.0	200.0	0.4	0.4	0.36	90.0	0.6	90.0	89.2	0.80	113.003
300.0	300.0	300.0	300.0	0.7	0.7	0.36	90.0	0.6	90.0	88.7	1.33	67.802
400.0	400.0	400.0	400.0	0.9	0.9	0.36	90.0	0.6	90.0	88.1	1.86	48.430
500.0	500.0	500.0	500.0	1.2	1.2	0.36	90.0	0.6	90.0	87.6	2.39	37.668
600.0	600.0	600.0	600.0	1.5	1.5	0.36	90.0	0.6	90.0	87.1	2.92	30.819
700.0	700.0	700.0	700.0	1.7	1.7	0.36	90.0	0.6	90.0	86.5	3.45	26.078
800.0	800.0	800.0	800.0	2.0	2.0	0.36	90.0	0.6	90.0	86.0	3.98	22.601
900.0	900.0	900.0	900.0	2.3	2.3	0.36	90.0	0.6	90.0	85.5	4.51	19.942
1,000.0	1,000.0	1,000.0	1,000.0	2.5	2.5	0.36	90.0	0.6	90.0	84.9	5.04	17.843
1,100.0	1,100.0	1,100.0	1,100.0	2.8	2.8	0.36	90.0	0.6	90.0	84.4	5.57	16.143
1,200.0	1,200.0	1,200.0	1,200.0	3.1	3.1	0.36	90.0	0.6	90.0	83.9	6.11	14.739
1,300.0	1,300.0	1,300.0	1,300.0	3.3	3.3	0.36	90.0	0.6	90.0	83.4	6.64	13.560
1,400.0	1,400.0	1,400.0	1,400.0	3.6	3.6	0.36	90.0	0.6	90.0	82.8	7.17	12.556
1,500.0	1,500.0	1,500.0	1,500.0	3.8	3.8	0.36	90.0	0.6	90.0	82.3	7.70	11.690
1,600.0	1,600.0	1,600.0	1,600.0	4.1	4.1	0.36	90.0	0.6	90.0	81.8	8.23	10.936
1,700.0	1,700.0	1,700.0	1,700.0	4.4	4.4	0.36	90.0	0.6	90.0	81.2	8.76	10.273
1,800.0	1,800.0	1,800.0	1,800.0	4.6	4.6	0.36	90.0	0.6	90.0	80.7	9.29	9.686
1,900.0	1,900.0	1,900.0	1,900.0	4.9	4.9	0.36	90.0	0.6	90.0	80.2	9.82	9.162
2,000.0	2,000.0	2,000.0	2,000.0	5.2	5.2	0.36	90.0	0.6	90.0	79.6	10.35	8.693
2,100.0	2,100.0	2,100.0	2,100.0	5.4	5.4	0.36	90.0	0.6	90.0	79.1	10.88	8.268

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

Postle East Pad Sec.12-T3N-R68W - Postle IC 11-302HN - Wellbore #1 - Plan #1 (10-23-13)													Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7230-MWVD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
2,200.0	2,200.0	2,200.0	2,200.0	5.7	5.7	0.36	90.0	0.6	90.0	78.6	11.41	7.884		
2,300.0	2,300.0	2,300.0	2,300.0	6.0	6.0	0.36	90.0	0.6	90.0	78.0	11.95	7.534		
2,400.0	2,400.0	2,400.0	2,400.0	6.2	6.2	0.36	90.0	0.6	90.0	77.5	12.48	7.213		
2,500.0	2,500.0	2,500.0	2,500.0	6.5	6.5	0.36	90.0	0.6	90.0	77.0	13.01	6.919		
2,600.0	2,600.0	2,600.0	2,600.0	6.8	6.8	0.36	90.0	0.6	90.0	76.5	13.54	6.647		
2,700.0	2,700.0	2,700.0	2,700.0	7.0	7.0	0.36	90.0	0.6	90.0	75.9	14.07	6.396		
2,800.0	2,800.0	2,800.0	2,800.0	7.3	7.3	0.36	90.0	0.6	90.0	75.4	14.60	6.164		
2,900.0	2,900.0	2,900.0	2,900.0	7.6	7.6	0.36	90.0	0.6	90.0	74.9	15.13	5.948		
3,000.0	3,000.0	3,000.0	3,000.0	7.8	7.8	0.36	90.0	0.6	90.0	74.3	15.66	5.746		
3,100.0	3,100.0	3,100.0	3,100.0	8.1	8.1	0.36	90.0	0.6	90.0	73.8	16.19	5.558		
3,200.0	3,200.0	3,200.0	3,200.0	8.4	8.4	0.36	90.0	0.6	90.0	73.3	16.72	5.381		
3,300.0	3,300.0	3,300.0	3,300.0	8.6	8.6	0.36	90.0	0.6	90.0	72.7	17.25	5.216		
3,400.0	3,400.0	3,400.0	3,400.0	8.9	8.9	0.36	90.0	0.6	90.0	72.2	17.78	5.060		
3,500.0	3,500.0	3,500.0	3,500.0	9.2	9.2	0.36	90.0	0.6	90.0	71.7	18.32	4.913		
3,600.0	3,600.0	3,600.0	3,600.0	9.4	9.4	0.36	90.0	0.6	90.0	71.1	18.85	4.775		
3,700.0	3,700.0	3,700.0	3,700.0	9.7	9.7	0.36	90.0	0.6	90.0	70.6	19.38	4.644		
3,800.0	3,800.0	3,800.0	3,800.0	10.0	10.0	0.36	90.0	0.6	90.0	70.1	19.91	4.520		
3,900.0	3,900.0	3,900.0	3,900.0	10.2	10.2	0.36	90.0	0.6	90.0	69.5	20.44	4.403		
4,000.0	4,000.0	4,000.0	4,000.0	10.5	10.5	0.36	90.0	0.6	90.0	69.0	20.97	4.291		
4,100.0	4,100.0	4,100.0	4,100.0	10.8	10.8	0.36	90.0	0.6	90.0	68.5	21.50	4.185		
4,200.0	4,200.0	4,200.0	4,200.0	11.0	11.0	0.36	90.0	0.6	90.0	68.0	22.03	4.084		
4,300.0	4,300.0	4,300.0	4,300.0	11.3	11.3	0.36	90.0	0.6	90.0	67.4	22.56	3.988		
4,400.0	4,400.0	4,400.0	4,400.0	11.5	11.5	0.36	90.0	0.6	90.0	66.9	23.09	3.897		
4,500.0	4,500.0	4,500.0	4,500.0	11.8	11.8	0.36	90.0	0.6	90.0	66.4	23.62	3.809		
4,600.0	4,600.0	4,600.0	4,600.0	12.1	12.1	0.36	90.0	0.6	90.0	65.8	24.16	3.725		
4,700.0	4,700.0	4,700.0	4,700.0	12.3	12.3	0.36	90.0	0.6	90.0	65.3	24.69	3.645		
4,800.0	4,800.0	4,800.0	4,800.0	12.6	12.6	0.36	90.0	0.6	90.0	64.8	25.22	3.569		
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	0.36	90.0	0.6	90.0	64.2	25.75	3.495		
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	0.36	90.0	0.6	90.0	63.7	26.28	3.424		
5,100.0	5,100.0	5,100.0	5,100.0	13.4	13.4	0.36	90.0	0.6	90.0	63.2	26.81	3.357		
5,200.0	5,200.0	5,200.0	5,200.0	13.7	13.7	0.36	90.0	0.6	90.0	62.6	27.34	3.291		
5,300.0	5,300.0	5,300.0	5,300.0	13.9	13.9	0.36	90.0	0.6	90.0	62.1	27.87	3.229		
5,400.0	5,400.0	5,400.0	5,400.0	14.2	14.2	0.36	90.0	0.6	90.0	61.6	28.40	3.168		
5,433.4	5,433.4	5,433.4	5,433.4	14.3	14.3	0.36	90.0	0.6	90.0	61.4	28.58	3.149 CC, ES		
5,500.0	5,500.0	5,498.1	5,498.1	14.5	14.5	0.13	90.5	0.2	90.5	61.6	28.92	3.130 SF		
5,600.0	5,600.0	5,594.0	5,593.8	14.7	14.7	-1.54	94.6	-2.5	94.8	65.4	29.42	3.223		
5,700.0	5,699.9	5,689.0	5,688.3	14.9	14.9	133.93	102.6	-8.0	105.6	75.8	29.76	3.547		
5,800.0	5,799.6	5,782.2	5,780.4	14.9	15.1	132.77	114.4	-15.9	124.5	94.6	29.92	4.162		
5,900.0	5,898.6	5,872.7	5,869.1	14.9	15.4	132.27	129.5	-26.1	151.4	121.4	30.04	5.042		
6,000.0	5,996.6	5,959.8	5,953.4	14.9	15.6	132.08	147.3	-38.1	185.9	155.8	30.10	6.176		
6,100.0	6,093.3	6,042.7	6,032.8	14.9	15.8	131.96	167.3	-51.6	227.6	197.4	30.11	7.557		
6,200.0	6,188.5	6,121.2	6,106.8	15.0	16.0	131.75	188.9	-66.2	276.0	245.9	30.08	9.174		
6,300.0	6,281.7	6,200.0	6,180.0	15.0	16.2	131.45	213.2	-82.6	330.7	300.7	30.01	11.018		
6,400.0	6,372.8	6,263.1	6,237.7	15.1	16.4	130.74	234.4	-96.9	391.1	361.2	29.91	13.075		
6,500.0	6,461.3	6,326.4	6,294.6	15.1	16.5	129.84	257.3	-112.4	456.8	427.0	29.81	15.324		
6,600.0	6,547.9	6,385.1	6,346.5	15.2	16.7	130.38	280.0	-127.7	526.5	496.7	29.85	17.641		
6,700.0	6,634.4	6,441.2	6,395.3	15.3	16.8	131.14	302.9	-143.2	598.2	568.2	29.96	19.964		
6,800.0	6,720.8	6,506.5	6,451.5	15.5	17.0	131.76	330.6	-161.9	671.0	640.9	30.12	22.283		
6,900.0	6,807.3	6,574.8	6,510.1	15.6	17.2	132.28	359.6	-181.4	744.0	713.7	30.29	24.561		
7,000.0	6,891.8	6,643.2	6,568.9	15.8	17.4	113.94	388.6	-201.0	816.1	784.6	31.55	25.867		
7,100.0	6,966.5	6,710.4	6,626.6	16.0	17.7	96.34	417.1	-220.2	884.1	851.2	32.90	26.870		
7,200.0	7,027.3	6,773.0	6,680.4	16.2	17.9	85.31	443.6	-238.2	946.1	912.6	33.53	28.218		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-382HN
Project:	Sec.12-T3N-R68W	TVD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Reference Site:	Postle East Pad Sec.12-T3N-R68W	MD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-382HN	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 (10-23-13)	Offset TVD Reference:	Offset Datum

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-382HN
Project:	Sec.12-T3N-R68W	TVD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Reference Site:	Postle East Pad Sec.12-T3N-R68W	MD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-382HN	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 (10-23-13)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7355-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.54	59.7	0.6	59.8					
100.0	100.0	100.0	100.0	0.1	0.1	0.54	59.7	0.6	59.8	59.5	0.27	225.101		
200.0	200.0	200.0	200.0	0.4	0.4	0.54	59.7	0.6	59.8	59.0	0.80	75.034		
300.0	300.0	300.0	300.0	0.7	0.7	0.54	59.7	0.6	59.8	58.4	1.33	45.020		
400.0	400.0	400.0	400.0	0.9	0.9	0.54	59.7	0.6	59.8	57.9	1.86	32.157		
500.0	500.0	500.0	500.0	1.2	1.2	0.54	59.7	0.6	59.8	57.4	2.39	25.011		
600.0	600.0	600.0	600.0	1.5	1.5	0.54	59.7	0.6	59.8	56.8	2.92	20.464		
700.0	700.0	700.0	700.0	1.7	1.7	0.54	59.7	0.6	59.8	56.3	3.45	17.315		
800.0	800.0	800.0	800.0	2.0	2.0	0.54	59.7	0.6	59.8	55.8	3.98	15.007		
900.0	900.0	900.0	900.0	2.3	2.3	0.54	59.7	0.6	59.8	55.2	4.51	13.241		
1,000.0	1,000.0	1,000.0	1,000.0	2.5	2.5	0.54	59.7	0.6	59.8	54.7	5.04	11.847		
1,100.0	1,100.0	1,100.0	1,100.0	2.8	2.8	0.54	59.7	0.6	59.8	54.2	5.57	10.719		
1,200.0	1,200.0	1,200.0	1,200.0	3.1	3.1	0.54	59.7	0.6	59.8	53.6	6.11	9.787		
1,300.0	1,300.0	1,300.0	1,300.0	3.3	3.3	0.54	59.7	0.6	59.8	53.1	6.64	9.004		
1,400.0	1,400.0	1,400.0	1,400.0	3.6	3.6	0.54	59.7	0.6	59.8	52.6	7.17	8.337		
1,500.0	1,500.0	1,500.0	1,500.0	3.8	3.8	0.54	59.7	0.6	59.8	52.1	7.70	7.762		
1,600.0	1,600.0	1,600.0	1,600.0	4.1	4.1	0.54	59.7	0.6	59.8	51.5	8.23	7.261		
1,700.0	1,700.0	1,700.0	1,700.0	4.4	4.4	0.54	59.7	0.6	59.8	51.0	8.76	6.821		
1,800.0	1,800.0	1,800.0	1,800.0	4.6	4.6	0.54	59.7	0.6	59.8	50.5	9.29	6.431		
1,900.0	1,900.0	1,900.0	1,900.0	4.9	4.9	0.54	59.7	0.6	59.8	49.9	9.82	6.084		
2,000.0	2,000.0	2,000.0	2,000.0	5.2	5.2	0.54	59.7	0.6	59.8	49.4	10.35	5.772		
2,100.0	2,100.0	2,100.0	2,100.0	5.4	5.4	0.54	59.7	0.6	59.8	48.9	10.88	5.490		
2,200.0	2,200.0	2,200.0	2,200.0	5.7	5.7	0.54	59.7	0.6	59.8	48.3	11.41	5.235		
2,300.0	2,300.0	2,300.0	2,300.0	6.0	6.0	0.54	59.7	0.6	59.8	47.8	11.95	5.002		
2,400.0	2,400.0	2,400.0	2,400.0	6.2	6.2	0.54	59.7	0.6	59.8	47.3	12.48	4.789		
2,500.0	2,500.0	2,500.0	2,500.0	6.5	6.5	0.54	59.7	0.6	59.8	46.7	13.01	4.594		
2,600.0	2,600.0	2,600.0	2,600.0	6.8	6.8	0.54	59.7	0.6	59.8	46.2	13.54	4.414		
2,700.0	2,700.0	2,700.0	2,700.0	7.0	7.0	0.54	59.7	0.6	59.8	45.7	14.07	4.247		
2,800.0	2,800.0	2,800.0	2,800.0	7.3	7.3	0.54	59.7	0.6	59.8	45.2	14.60	4.093		
2,900.0	2,900.0	2,900.0	2,900.0	7.6	7.6	0.54	59.7	0.6	59.8	44.6	15.13	3.949		
3,000.0	3,000.0	3,000.0	3,000.0	7.8	7.8	0.54	59.7	0.6	59.8	44.1	15.66	3.815		
3,100.0	3,100.0	3,100.0	3,100.0	8.1	8.1	0.54	59.7	0.6	59.8	43.6	16.19	3.690		
3,200.0	3,200.0	3,200.0	3,200.0	8.4	8.4	0.54	59.7	0.6	59.8	43.0	16.72	3.573		
3,300.0	3,300.0	3,300.0	3,300.0	8.6	8.6	0.54	59.7	0.6	59.8	42.5	17.25	3.463		
3,400.0	3,400.0	3,400.0	3,400.0	8.9	8.9	0.54	59.7	0.6	59.8	42.0	17.78	3.360		
3,500.0	3,500.0	3,500.0	3,500.0	9.2	9.2	0.54	59.7	0.6	59.8	41.4	18.32	3.262		
3,600.0	3,600.0	3,600.0	3,600.0	9.4	9.4	0.54	59.7	0.6	59.8	40.9	18.85	3.170		
3,700.0	3,700.0	3,700.0	3,700.0	9.7	9.7	0.54	59.7	0.6	59.8	40.4	19.38	3.084		
3,800.0	3,800.0	3,800.0	3,800.0	10.0	10.0	0.54	59.7	0.6	59.8	39.8	19.91	3.001		
3,900.0	3,900.0	3,900.0	3,900.0	10.2	10.2	0.54	59.7	0.6	59.8	39.3	20.44	2.923		
4,000.0	4,000.0	4,000.0	4,000.0	10.5	10.5	0.54	59.7	0.6	59.8	38.8	20.97	2.849		
4,100.0	4,100.0	4,100.0	4,100.0	10.8	10.8	0.54	59.7	0.6	59.8	38.3	21.50	2.779		
4,200.0	4,200.0	4,200.0	4,200.0	11.0	11.0	0.54	59.7	0.6	59.8	37.7	22.03	2.712		
4,300.0	4,300.0	4,300.0	4,300.0	11.3	11.3	0.54	59.7	0.6	59.8	37.2	22.56	2.648		
4,400.0	4,400.0	4,400.0	4,400.0	11.5	11.5	0.54	59.7	0.6	59.8	36.7	23.09	2.587		
4,500.0	4,500.0	4,500.0	4,500.0	11.8	11.8	0.54	59.7	0.6	59.8	36.1	23.62	2.529		
4,600.0	4,600.0	4,600.0	4,600.0	12.1	12.1	0.54	59.7	0.6	59.8	35.6	24.16	2.474		
4,700.0	4,700.0	4,700.0	4,700.0	12.3	12.3	0.54	59.7	0.6	59.8	35.1	24.69	2.420		
4,800.0	4,800.0	4,800.0	4,800.0	12.6	12.6	0.54	59.7	0.6	59.8	34.5	25.22	2.369		
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	0.54	59.7	0.6	59.8	34.0	25.75	2.321		
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	0.54	59.7	0.6	59.8	33.5	26.28	2.274		
5,100.0	5,100.0	5,100.0	5,100.0	13.4	13.4	0.54	59.7	0.6	59.8	32.9	26.81	2.229		

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

Postle East Pad Sec.12-T3N-R68W - Postle IC 11-342HC - Wellbore #1 - Plan #1 (10-23-13)													Offset Site Error:	0.0 ft
Survey Program: 0-N5-GYRO-MS, 7355-MWVD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,200.0	5,200.0	5,200.0	5,200.0	13.7	13.7	0.54	59.7	0.6	59.8	32.4	27.34	2.185	2.028 CC, ES, SF	
5,300.0	5,300.0	5,300.0	5,300.0	13.9	13.9	0.54	59.7	0.6	59.8	31.9	27.87	2.144		
5,400.0	5,400.0	5,400.0	5,400.0	14.2	14.2	0.54	59.7	0.6	59.8	31.3	28.40	2.104		
5,500.0	5,500.0	5,500.0	5,500.0	14.5	14.5	0.54	59.7	0.6	59.8	30.8	28.93	2.065		
5,600.0	5,600.0	5,600.0	5,600.0	14.7	14.7	0.54	59.7	0.6	59.8	30.3	29.46	2.028		
5,700.0	5,699.9	5,699.9	5,699.9	14.9	15.0	139.80	59.7	0.6	61.9	32.1	29.84	2.074		
5,800.0	5,799.6	5,799.6	5,799.6	14.9	15.3	144.25	59.7	0.6	68.6	38.6	30.01	2.286		
5,900.0	5,898.6	5,896.8	5,896.8	14.9	15.5	148.10	61.2	-1.6	81.6	51.5	30.07	2.713		
6,000.0	5,996.6	5,992.9	5,992.5	14.9	15.7	149.47	65.6	-8.0	101.6	71.6	30.02	3.385		
6,100.0	6,093.3	6,087.0	6,085.8	14.9	15.9	149.25	72.7	-18.3	128.4	98.4	29.91	4.291		
6,200.0	6,188.5	6,178.6	6,175.8	15.0	16.1	148.19	82.3	-32.2	161.6	131.8	29.76	5.429		
6,300.0	6,281.7	6,267.1	6,261.8	15.0	16.2	146.75	94.0	-49.3	201.0	171.5	29.57	6.800		
6,400.0	6,372.8	6,351.9	6,343.3	15.1	16.4	145.14	107.4	-68.9	246.5	217.2	29.35	8.399		
6,500.0	6,461.3	6,432.9	6,419.9	15.1	16.6	143.45	122.3	-90.5	297.7	268.6	29.12	10.223		
6,600.0	6,547.9	6,510.3	6,491.9	15.2	16.8	142.56	138.3	-113.8	353.2	324.0	29.23	12.085		
6,700.0	6,634.4	6,588.7	6,563.8	15.3	17.0	141.69	156.1	-139.8	410.2	380.8	29.49	13.912		
6,800.0	6,720.8	6,670.6	6,638.5	15.5	17.2	140.93	175.0	-167.2	467.5	437.8	29.76	15.709		
6,900.0	6,807.3	6,752.4	6,713.2	15.6	17.3	140.33	193.8	-194.7	524.9	494.8	30.04	17.473		
7,000.0	6,891.8	6,834.3	6,788.1	15.8	17.6	124.07	212.7	-222.2	581.9	551.0	30.98	18.783		
7,100.0	6,966.5	6,914.6	6,861.4	16.0	17.8	109.15	231.2	-249.1	637.0	604.8	32.28	19.737		
7,200.0	7,027.3	6,989.2	6,929.5	16.2	17.9	100.04	248.4	-274.1	689.3	656.0	33.34	20.679		
7,300.0	7,071.1	7,057.0	6,991.4	17.3	18.1	94.26	264.0	-296.9	739.3	705.3	34.01	21.739		
7,400.0	7,095.7	7,261.5	7,155.0	17.4	18.7	97.76	306.3	-408.7	782.3	747.6	34.71	22.541		
7,500.0	7,100.7	7,610.7	7,269.7	17.8	20.2	102.21	340.7	-727.3	798.9	762.4	36.54	21.866		
7,600.0	7,100.7	7,710.6	7,269.7	19.1	21.1	102.18	342.6	-827.2	800.9	762.0	38.93	20.572		
7,700.0	7,100.7	7,810.6	7,269.7	20.7	22.4	102.15	344.6	-927.2	802.9	761.0	41.92	19.154		
7,800.0	7,100.7	7,910.6	7,269.7	22.6	24.0	102.12	346.5	-1,027.2	804.8	759.5	45.37	17.739		
7,900.0	7,100.7	8,010.6	7,269.7	24.6	25.9	102.09	348.5	-1,127.1	806.8	757.6	49.20	16.399		
8,000.0	7,100.7	8,110.6	7,269.7	26.8	27.9	102.06	350.4	-1,227.1	808.8	755.4	53.32	15.168		
8,100.0	7,100.7	8,210.5	7,269.7	29.1	30.0	102.03	352.4	-1,327.0	810.7	753.0	57.67	14.058		
8,200.0	7,100.7	8,310.5	7,269.7	31.5	32.3	102.00	354.3	-1,427.0	812.7	750.5	62.21	13.064		
8,300.0	7,100.7	8,410.5	7,269.7	33.9	34.6	101.98	356.3	-1,527.0	814.6	747.8	66.89	12.180		
8,400.0	7,100.7	8,510.5	7,269.7	36.4	37.0	101.95	358.2	-1,626.9	816.6	744.9	71.68	11.392		
8,500.0	7,100.7	8,610.5	7,269.7	38.9	39.4	101.92	360.2	-1,726.9	818.6	742.0	76.58	10.689		
8,600.0	7,100.7	8,710.4	7,269.7	41.5	41.9	101.89	362.1	-1,826.8	820.5	739.0	81.55	10.062		
8,700.0	7,100.7	8,810.4	7,269.7	44.1	44.4	101.86	364.1	-1,926.8	822.5	735.9	86.59	9.499		
8,800.0	7,100.7	8,910.4	7,269.7	46.7	47.0	101.83	366.0	-2,026.8	824.5	732.8	91.68	8.993		
8,900.0	7,100.7	9,010.4	7,269.7	49.4	49.6	101.80	368.0	-2,126.7	826.4	729.6	96.82	8.536		
9,000.0	7,100.7	9,110.4	7,269.7	52.0	52.2	101.77	369.9	-2,226.7	828.4	726.4	102.00	8.121		
9,100.0	7,100.7	9,210.3	7,269.7	54.7	54.8	101.75	371.9	-2,326.6	830.4	723.1	107.21	7.745		
9,200.0	7,100.7	9,310.3	7,269.7	57.4	57.5	101.72	373.8	-2,426.6	832.3	719.9	112.46	7.401		
9,300.0	7,100.7	9,410.3	7,269.7	60.1	60.1	101.69	375.8	-2,526.6	834.3	716.6	117.72	7.087		
9,400.0	7,100.7	9,510.3	7,269.7	62.8	62.8	101.66	377.7	-2,626.5	836.3	713.2	123.02	6.798		
9,500.0	7,100.7	9,610.2	7,269.7	65.5	65.5	101.63	379.7	-2,726.5	838.2	709.9	128.33	6.532		
9,600.0	7,100.7	9,710.2	7,269.7	68.2	68.2	101.61	381.6	-2,826.4	840.2	706.5	133.65	6.286		
9,700.0	7,100.7	9,810.2	7,269.7	70.9	70.9	101.58	383.6	-2,926.4	842.1	703.2	139.00	6.059		
9,800.0	7,100.7	9,910.2	7,269.7	73.7	73.6	101.55	385.5	-3,026.4	844.1	699.8	144.35	5.848		
9,900.0	7,100.7	10,010.2	7,269.7	76.4	76.3	101.52	387.5	-3,126.3	846.1	696.4	149.72	5.651		
10,000.0	7,100.7	10,110.1	7,269.7	79.2	79.0	101.50	389.4	-3,226.3	848.0	692.9	155.11	5.468		
10,100.0	7,100.7	10,210.1	7,269.7	81.9	81.8	101.47	391.4	-3,326.3	850.0	689.5	160.50	5.296		
10,200.0	7,100.7	10,310.1	7,269.7	84.7	84.5	101.44	393.3	-3,426.2	852.0	686.1	165.90	5.136		
10,300.0	7,100.7	10,410.1	7,269.7	87.4	87.3	101.42	395.3	-3,526.2	853.9	682.6	171.31	4.985		

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-382HN
Project:	Sec.12-T3N-R68W	TVD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Reference Site:	Postle East Pad Sec.12-T3N-R68W	MD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-382HN	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 (10-23-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle East Pad Sec.12-T3N-R68W - Postle IC 11-342HC - Wellbore #1 - Plan #1 (10-23-13)												Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7355-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,100.7	10,510.1	7,269.7	90.2	90.0	101.39	397.2	-3,626.1	855.9	679.2	176.73	4.843	
10,500.0	7,100.7	10,610.0	7,269.7	92.9	92.7	101.36	399.2	-3,726.1	857.9	675.7	182.15	4.710	
10,600.0	7,100.7	10,710.0	7,269.7	95.7	95.5	101.34	401.1	-3,826.1	859.8	672.3	187.58	4.584	
10,700.0	7,100.7	10,810.0	7,269.7	98.5	98.3	101.31	403.1	-3,926.0	861.8	668.8	193.02	4.465	
10,800.0	7,100.7	10,910.0	7,269.7	101.2	101.0	101.28	405.0	-4,026.0	863.8	665.3	198.46	4.352	
10,900.0	7,100.7	11,010.0	7,269.7	104.0	103.8	101.26	407.0	-4,125.9	865.8	661.8	203.91	4.246	
11,000.0	7,100.7	11,109.9	7,269.7	106.8	106.5	101.23	408.9	-4,225.9	867.7	658.4	209.36	4.145	
11,100.0	7,100.7	11,209.9	7,269.7	109.6	109.3	101.21	410.9	-4,325.9	869.7	654.9	214.82	4.048	
11,200.0	7,100.7	11,309.9	7,269.7	112.3	112.1	101.18	412.8	-4,425.8	871.7	651.4	220.29	3.957	
11,300.0	7,100.7	11,409.9	7,269.7	115.1	114.8	101.16	414.8	-4,525.8	873.6	647.9	225.75	3.870	
11,400.0	7,100.7	11,509.9	7,269.7	117.9	117.6	101.13	416.7	-4,625.7	875.6	644.4	231.22	3.787	
11,500.0	7,100.7	11,609.8	7,269.7	120.7	120.4	101.11	418.7	-4,725.7	877.6	640.9	236.70	3.708	
11,600.0	7,100.7	11,709.8	7,269.7	123.5	123.2	101.08	420.6	-4,825.7	879.5	637.4	242.17	3.632	
11,700.0	7,100.7	11,809.8	7,269.7	126.2	125.9	101.06	422.6	-4,925.6	881.5	633.8	247.65	3.559	
11,794.9	7,100.7	11,904.7	7,269.7	128.9	128.6	101.03	424.4	-5,020.5	883.4	630.5	252.86	3.494	

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-382HN
Project:	Sec.12-T3N-R68W	TVD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Reference Site:	Postle East Pad Sec.12-T3N-R68W	MD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-382HN	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 (10-23-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle East Pad Sec.12-T3N-R68W - Postle IC 11-379HN - Wellbore #1 - Plan #1 (10-23-13)												Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7190-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	1.05	30.6	0.6	30.6				
100.0	100.0	100.0	100.0	0.1	0.1	1.05	30.6	0.6	30.6	30.3	0.27	115.317	
200.0	200.0	200.0	200.0	0.4	0.4	1.05	30.6	0.6	30.6	29.8	0.80	38.439	
300.0	300.0	300.0	300.0	0.7	0.7	1.05	30.6	0.6	30.6	29.3	1.33	23.063	
400.0	400.0	400.0	400.0	0.9	0.9	1.05	30.6	0.6	30.6	28.8	1.86	16.474	
500.0	500.0	500.0	500.0	1.2	1.2	1.05	30.6	0.6	30.6	28.2	2.39	12.813	
600.0	600.0	600.0	600.0	1.5	1.5	1.05	30.6	0.6	30.6	27.7	2.92	10.483	
700.0	700.0	700.0	700.0	1.7	1.7	1.05	30.6	0.6	30.6	27.2	3.45	8.871	
800.0	800.0	800.0	800.0	2.0	2.0	1.05	30.6	0.6	30.6	26.6	3.98	7.688	
900.0	900.0	900.0	900.0	2.3	2.3	1.05	30.6	0.6	30.6	26.1	4.51	6.783	
1,000.0	1,000.0	1,000.0	1,000.0	2.5	2.5	1.05	30.6	0.6	30.6	25.6	5.04	6.069	
1,100.0	1,100.0	1,100.0	1,100.0	2.8	2.8	1.05	30.6	0.6	30.6	25.0	5.57	5.491	
1,200.0	1,200.0	1,200.0	1,200.0	3.1	3.1	1.05	30.6	0.6	30.6	24.5	6.11	5.014	
1,300.0	1,300.0	1,300.0	1,300.0	3.3	3.3	1.05	30.6	0.6	30.6	24.0	6.64	4.613	
1,400.0	1,400.0	1,400.0	1,400.0	3.6	3.6	1.05	30.6	0.6	30.6	23.4	7.17	4.271	
1,500.0	1,500.0	1,500.0	1,500.0	3.8	3.8	1.05	30.6	0.6	30.6	22.9	7.70	3.976	
1,600.0	1,600.0	1,600.0	1,600.0	4.1	4.1	1.05	30.6	0.6	30.6	22.4	8.23	3.720	
1,700.0	1,700.0	1,700.0	1,700.0	4.4	4.4	1.05	30.6	0.6	30.6	21.9	8.76	3.494	
1,800.0	1,800.0	1,800.0	1,800.0	4.6	4.6	1.05	30.6	0.6	30.6	21.3	9.29	3.295	
1,900.0	1,900.0	1,900.0	1,900.0	4.9	4.9	1.05	30.6	0.6	30.6	20.8	9.82	3.117	
2,000.0	2,000.0	2,000.0	2,000.0	5.2	5.2	1.05	30.6	0.6	30.6	20.3	10.35	2.957	
2,100.0	2,100.0	2,100.0	2,100.0	5.4	5.4	1.05	30.6	0.6	30.6	19.7	10.88	2.813	
2,200.0	2,200.0	2,200.0	2,200.0	5.7	5.7	1.05	30.6	0.6	30.6	19.2	11.41	2.682	
2,300.0	2,300.0	2,300.0	2,300.0	6.0	6.0	1.05	30.6	0.6	30.6	18.7	11.95	2.563	
2,400.0	2,400.0	2,400.0	2,400.0	6.2	6.2	1.05	30.6	0.6	30.6	18.1	12.48	2.454	
2,500.0	2,500.0	2,500.0	2,500.0	6.5	6.5	1.05	30.6	0.6	30.6	17.6	13.01	2.353	
2,600.0	2,600.0	2,600.0	2,600.0	6.8	6.8	1.05	30.6	0.6	30.6	17.1	13.54	2.261	
2,700.0	2,700.0	2,700.0	2,700.0	7.0	7.0	1.05	30.6	0.6	30.6	16.5	14.07	2.176	
2,800.0	2,800.0	2,800.0	2,800.0	7.3	7.3	1.05	30.6	0.6	30.6	16.0	14.60	2.097	
2,900.0	2,900.0	2,900.0	2,900.0	7.6	7.6	1.05	30.6	0.6	30.6	15.5	15.13	2.023	
3,000.0	3,000.0	3,000.0	3,000.0	7.8	7.8	1.05	30.6	0.6	30.6	14.9	15.66	1.955	
3,100.0	3,100.0	3,100.0	3,100.0	8.1	8.1	1.05	30.6	0.6	30.6	14.4	16.19	1.890	
3,200.0	3,200.0	3,200.0	3,200.0	8.4	8.4	1.05	30.6	0.6	30.6	13.9	16.72	1.830	
3,300.0	3,300.0	3,300.0	3,300.0	8.6	8.6	1.05	30.6	0.6	30.6	13.4	17.25	1.774	
3,400.0	3,400.0	3,400.0	3,400.0	8.9	8.9	1.05	30.6	0.6	30.6	12.8	17.78	1.721	
3,500.0	3,500.0	3,500.0	3,500.0	9.2	9.2	1.05	30.6	0.6	30.6	12.3	18.32	1.671	
3,600.0	3,600.0	3,600.0	3,600.0	9.4	9.4	1.05	30.6	0.6	30.6	11.8	18.85	1.624	
3,700.0	3,700.0	3,700.0	3,700.0	9.7	9.7	1.05	30.6	0.6	30.6	11.2	19.38	1.580	
3,800.0	3,800.0	3,800.0	3,800.0	10.0	10.0	1.05	30.6	0.6	30.6	10.7	19.91	1.538	
3,900.0	3,900.0	3,900.0	3,900.0	10.2	10.2	1.05	30.6	0.6	30.6	10.2	20.44	1.498 Level 3	
4,000.0	4,000.0	4,000.0	4,000.0	10.5	10.5	1.05	30.6	0.6	30.6	9.6	20.97	1.460 Level 3	
4,100.0	4,100.0	4,100.0	4,100.0	10.8	10.8	1.05	30.6	0.6	30.6	9.1	21.50	1.424 Level 3	
4,200.0	4,200.0	4,200.0	4,200.0	11.0	11.0	1.05	30.6	0.6	30.6	8.6	22.03	1.389 Level 3	
4,300.0	4,300.0	4,300.0	4,300.0	11.3	11.3	1.05	30.6	0.6	30.6	8.0	22.56	1.357 Level 3	
4,400.0	4,400.0	4,400.0	4,400.0	11.5	11.5	1.05	30.6	0.6	30.6	7.5	23.09	1.325 Level 3	
4,500.0	4,500.0	4,500.0	4,500.0	11.8	11.8	1.05	30.6	0.6	30.6	7.0	23.62	1.296 Level 3	
4,600.0	4,600.0	4,600.0	4,600.0	12.1	12.1	1.05	30.6	0.6	30.6	6.5	24.16	1.267 Level 3	
4,700.0	4,700.0	4,700.0	4,700.0	12.3	12.3	1.05	30.6	0.6	30.6	5.9	24.69	1.240 Level 2	
4,800.0	4,800.0	4,800.0	4,800.0	12.6	12.6	1.05	30.6	0.6	30.6	5.4	25.22	1.214 Level 2	
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	1.05	30.6	0.6	30.6	4.9	25.75	1.189 Level 2	
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	1.05	30.6	0.6	30.6	4.3	26.28	1.165 Level 2	
5,100.0	5,100.0	5,100.0	5,100.0	13.4	13.4	1.05	30.6	0.6	30.6	3.8	26.81	1.142 Level 2	

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

Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-382HN
Project:	Sec.12-T3N-R68W	TVD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Reference Site:	Postle East Pad Sec.12-T3N-R68W	MD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-382HN	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 (10-23-13)	Offset TVD Reference:	Offset Datum

Offset Design Postle East Pad Sec.12-T3N-R68W - Postle IC 11-379HN - Wellbore #1 - Plan #1 (10-23-13)													Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7190-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.0	5,200.0	5,200.0	5,200.0	13.7	13.7	1.05	30.6	0.6	30.6	3.3	27.34	1.120	Level 2	
5,300.0	5,300.0	5,300.0	5,300.0	13.9	13.9	1.05	30.6	0.6	30.6	2.7	27.87	1.098	Level 2	
5,400.0	5,400.0	5,400.0	5,400.0	14.2	14.2	1.05	30.6	0.6	30.6	2.2	28.40	1.078	Level 2	
5,500.0	5,500.0	5,500.0	5,500.0	14.5	14.5	1.05	30.6	0.6	30.6	1.7	28.93	1.058	Level 2	
5,600.0	5,600.0	5,600.0	5,600.0	14.7	14.7	1.05	30.6	0.6	30.6	1.1	29.46	1.039	Level 2, CC, ES, SF	
5,700.0	5,699.9	5,699.9	5,699.9	14.9	15.0	141.83	30.6	0.6	32.8	3.0	29.84	1.099	Level 2	
5,800.0	5,799.6	5,799.6	5,799.6	14.9	15.3	149.29	30.6	0.6	39.8	9.8	30.00	1.328	Level 3	
5,900.0	5,898.6	5,898.6	5,898.6	14.9	15.5	157.03	30.6	0.6	52.5	22.5	30.05	1.747		
6,000.0	5,996.6	5,996.6	5,996.6	14.9	15.8	163.06	30.6	0.6	71.1	41.1	29.99	2.372		
6,100.0	6,093.3	6,097.0	6,096.9	14.9	16.0	165.32	30.6	-3.3	93.8	64.0	29.79	3.149		
6,200.0	6,188.5	6,198.1	6,197.2	15.0	16.1	163.64	30.6	-15.7	118.0	88.6	29.46	4.006		
6,300.0	6,281.7	6,299.1	6,296.0	15.0	16.2	160.01	30.5	-36.3	144.1	115.0	29.13	4.948		
6,400.0	6,372.8	6,399.2	6,392.0	15.1	16.4	155.44	30.5	-64.9	172.6	143.8	28.83	5.989		
6,500.0	6,461.3	6,497.9	6,483.9	15.1	16.5	150.49	30.4	-100.7	204.3	175.7	28.61	7.141		
6,600.0	6,547.9	6,594.8	6,571.0	15.2	16.6	145.77	30.3	-143.1	238.3	209.4	28.91	8.243		
6,700.0	6,634.4	6,688.9	6,652.3	15.3	16.8	140.97	30.2	-190.4	272.4	243.0	29.43	9.258		
6,800.0	6,720.8	6,780.4	6,730.7	15.5	16.9	137.04	30.1	-237.7	307.8	277.9	29.92	10.288		
6,900.0	6,807.3	6,872.0	6,809.1	15.6	17.1	133.90	30.0	-285.0	344.2	313.8	30.38	11.330		
7,000.0	6,891.8	6,964.6	6,888.4	15.8	17.3	118.64	30.0	-332.8	380.4	349.0	31.35	12.134		
7,100.0	6,966.5	7,057.9	6,962.5	16.0	17.5	105.76	29.9	-389.2	412.3	379.9	32.45	12.706		
7,200.0	7,027.3	7,153.2	7,024.2	16.2	17.7	97.77	29.8	-461.6	438.3	404.9	33.40	13.122		
7,300.0	7,071.1	7,250.8	7,069.8	17.3	18.8	92.96	29.7	-547.6	457.0	423.0	34.00	13.441		
7,400.0	7,095.7	7,350.0	7,095.6	17.4	18.8	90.51	29.6	-643.2	467.4	432.4	35.00	13.354		
7,500.0	7,100.7	7,449.9	7,100.7	17.8	19.2	90.00	29.5	-742.9	469.6	432.7	36.84	12.748		
7,600.0	7,100.7	7,549.9	7,100.7	19.1	20.3	90.00	29.4	-842.9	469.5	430.2	39.36	11.929		
7,700.0	7,100.7	7,649.9	7,100.7	20.7	21.8	90.00	29.3	-942.9	469.5	427.0	42.47	11.054		
7,800.0	7,100.7	7,749.9	7,100.7	22.6	23.5	90.00	29.3	-1,042.9	469.5	423.4	46.06	10.193		
7,900.0	7,100.7	7,849.9	7,100.7	24.6	25.4	90.00	29.2	-1,142.9	469.5	419.5	50.02	9.385		
8,000.0	7,100.7	7,949.9	7,100.7	26.8	27.5	90.00	29.1	-1,242.9	469.4	415.2	54.27	8.650		
8,100.0	7,100.7	8,049.9	7,100.7	29.1	29.7	90.00	29.0	-1,342.9	469.4	410.7	58.75	7.990		
8,200.0	7,100.7	8,149.9	7,100.7	31.5	32.0	90.00	28.9	-1,442.9	469.4	406.0	63.42	7.402		
8,300.0	7,100.7	8,249.9	7,100.7	33.9	34.3	90.00	28.9	-1,542.9	469.4	401.2	68.22	6.880		
8,400.0	7,100.7	8,349.9	7,100.7	36.4	36.8	90.00	28.8	-1,642.9	469.3	396.2	73.14	6.417		
8,500.0	7,100.7	8,449.9	7,100.7	38.9	39.2	90.00	28.7	-1,742.9	469.3	391.2	78.15	6.005		
8,600.0	7,100.7	8,549.9	7,100.7	41.5	41.8	90.00	28.6	-1,842.9	469.3	386.1	83.24	5.638		
8,700.0	7,100.7	8,649.9	7,100.7	44.1	44.3	90.00	28.5	-1,942.9	469.3	380.9	88.39	5.309		
8,800.0	7,100.7	8,749.9	7,100.7	46.7	46.9	90.00	28.5	-2,042.9	469.2	375.6	93.60	5.013		
8,900.0	7,100.7	8,849.9	7,100.7	49.4	49.5	90.00	28.4	-2,142.9	469.2	370.4	98.85	4.747		
9,000.0	7,100.7	8,949.9	7,100.7	52.0	52.1	90.00	28.3	-2,242.9	469.2	365.1	104.13	4.506		
9,100.0	7,100.7	9,049.9	7,100.7	54.7	54.8	90.00	28.2	-2,342.9	469.2	359.7	109.45	4.286		
9,200.0	7,100.7	9,149.9	7,100.7	57.4	57.4	90.00	28.1	-2,442.9	469.1	354.3	114.80	4.087		
9,300.0	7,100.7	9,249.9	7,100.7	60.1	60.1	90.00	28.0	-2,542.9	469.1	348.9	120.17	3.904		
9,400.0	7,100.7	9,349.9	7,100.7	62.8	62.8	90.00	28.0	-2,642.9	469.1	343.5	125.56	3.736		
9,500.0	7,100.7	9,449.9	7,100.7	65.5	65.5	90.00	27.9	-2,742.9	469.1	338.1	130.98	3.581		
9,600.0	7,100.7	9,549.9	7,100.7	68.2	68.2	90.00	27.8	-2,842.9	469.0	332.6	136.40	3.439		
9,700.0	7,100.7	9,649.9	7,100.7	70.9	70.9	90.00	27.7	-2,942.9	469.0	327.2	141.84	3.307		
9,800.0	7,100.7	9,749.9	7,100.7	73.7	73.6	90.00	27.6	-3,042.9	469.0	321.7	147.30	3.184		
9,900.0	7,100.7	9,849.9	7,100.7	76.4	76.3	90.00	27.6	-3,142.9	469.0	316.2	152.76	3.070		
10,000.0	7,100.7	9,949.9	7,100.7	79.2	79.1	90.00	27.5	-3,242.9	468.9	310.7	158.24	2.964		
10,100.0	7,100.7	10,049.9	7,100.7	81.9	81.8	90.00	27.4	-3,342.9	468.9	305.2	163.72	2.864		
10,200.0	7,100.7	10,149.9	7,100.7	84.7	84.6	90.00	27.3	-3,442.9	468.9	299.7	169.22	2.771		
10,300.0	7,100.7	10,249.9	7,100.7	87.4	87.3	90.00	27.2	-3,542.9	468.9	294.2	174.72	2.684		

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

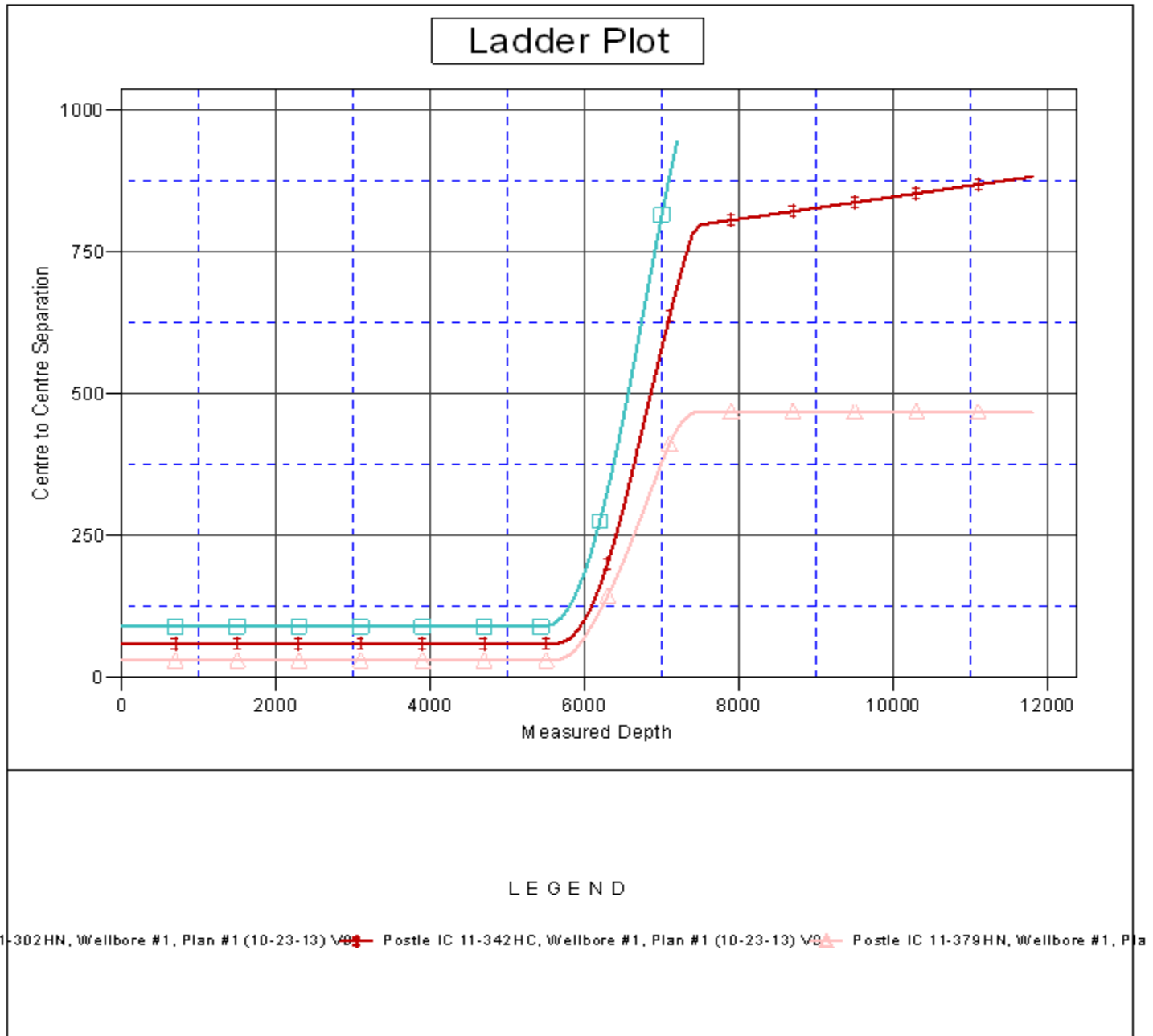
Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-382HN
Project:	Sec.12-T3N-R68W	TVD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Reference Site:	Postle East Pad Sec.12-T3N-R68W	MD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-382HN	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 (10-23-13)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Postle East Pad Sec.12-T3N-R68W - Postle IC 11-379HN - Wellbore #1 - Plan #1 (10-23-13)												Offset Well Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS, 7190-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,100.7	10,349.9	7,100.7	90.2	90.0	90.00	27.2	-3,642.9	468.8	288.6	180.22	2.601	
10,500.0	7,100.7	10,449.9	7,100.7	92.9	92.8	90.00	27.1	-3,742.9	468.8	283.1	185.74	2.524	
10,600.0	7,100.7	10,549.9	7,100.7	95.7	95.6	90.00	27.0	-3,842.9	468.8	277.5	191.26	2.451	
10,700.0	7,100.7	10,649.9	7,100.7	98.5	98.3	90.00	26.9	-3,942.9	468.8	272.0	196.78	2.382	
10,800.0	7,100.7	10,749.9	7,100.7	101.2	101.1	90.00	26.8	-4,042.9	468.7	266.4	202.31	2.317	
10,900.0	7,100.7	10,849.9	7,100.7	104.0	103.8	90.00	26.8	-4,142.9	468.7	260.9	207.84	2.255	
11,000.0	7,100.7	10,949.9	7,100.7	106.8	106.6	90.00	26.7	-4,242.9	468.7	255.3	213.38	2.197	
11,100.0	7,100.7	11,049.9	7,100.7	109.6	109.4	90.00	26.6	-4,342.9	468.7	249.7	218.92	2.141	
11,200.0	7,100.7	11,149.9	7,100.7	112.3	112.1	90.00	26.5	-4,442.9	468.6	244.2	224.47	2.088	
11,300.0	7,100.7	11,249.9	7,100.7	115.1	114.9	90.00	26.4	-4,542.9	468.6	238.6	230.01	2.037	
11,400.0	7,100.7	11,349.9	7,100.7	117.9	117.7	90.00	26.3	-4,642.9	468.6	233.0	235.56	1.989	
11,500.0	7,100.7	11,449.9	7,100.7	120.7	120.4	90.00	26.3	-4,742.9	468.6	227.4	241.12	1.943	
11,600.0	7,100.7	11,549.9	7,100.7	123.5	123.2	90.00	26.2	-4,842.9	468.5	221.9	246.67	1.899	
11,700.0	7,100.7	11,649.9	7,100.7	126.2	126.0	90.00	26.1	-4,942.9	468.5	216.3	252.23	1.857	
11,794.9	7,100.7	11,744.9	7,100.7	128.9	128.6	90.00	26.0	-5,037.8	468.5	211.0	257.51	1.819	

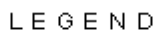
Company:	Great Western	Local Co-ordinate Reference:	Well Postle IC 11-382HN
Project:	Sec.12-T3N-R68W	TVD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Reference Site:	Postle East Pad Sec.12-T3N-R68W	MD Reference:	WELL @ 4941.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Postle IC 11-382HN	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 (10-23-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4941.6ft (RKB - 16.5')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Postle IC 11-382HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.35°



Reference Depths are relative to WELL @ 4941.6ft (RKB - 16.5')	Coordinates are relative to: Postle IC 11-382HN
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °	Grid Convergence at Surface is: 0.35°



11-302HN, Wellbore #1, Plan #1 (10-23-13) V0 ~~+~~ Postle IC 11-342HC, Wellbore #1, Plan #1 (10-23-13) V0 ~~+~~ Postle IC 11-379HN, Wellbore #1, Plan #1 (10-23-13) V0 ~~+~~