

Great Western

Well Name: **Tailholt FD 11-380HN**

Surface Location: Tailholt FD Horizontal Pad Sec.11-T6N-R67W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

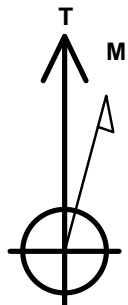
Ground Elevation: 4874.2

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1428645.16	3175677.99	40.508314	-104.868208	

RKB - 16.5' WELL @ 4890.7ft (RKB - 16.5')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 241'FNL & 527'FWL	-2.3	0.0	0.0	Point
BHL 470'FSL & 1'FWL	7118.7	-4672.4	-533.2	Point
Landing Pt. 460'FNL & 1'FWL	7175.7	-218.6	-526.1	Point



Azimuths to True North
Magnetic North: 8.62°

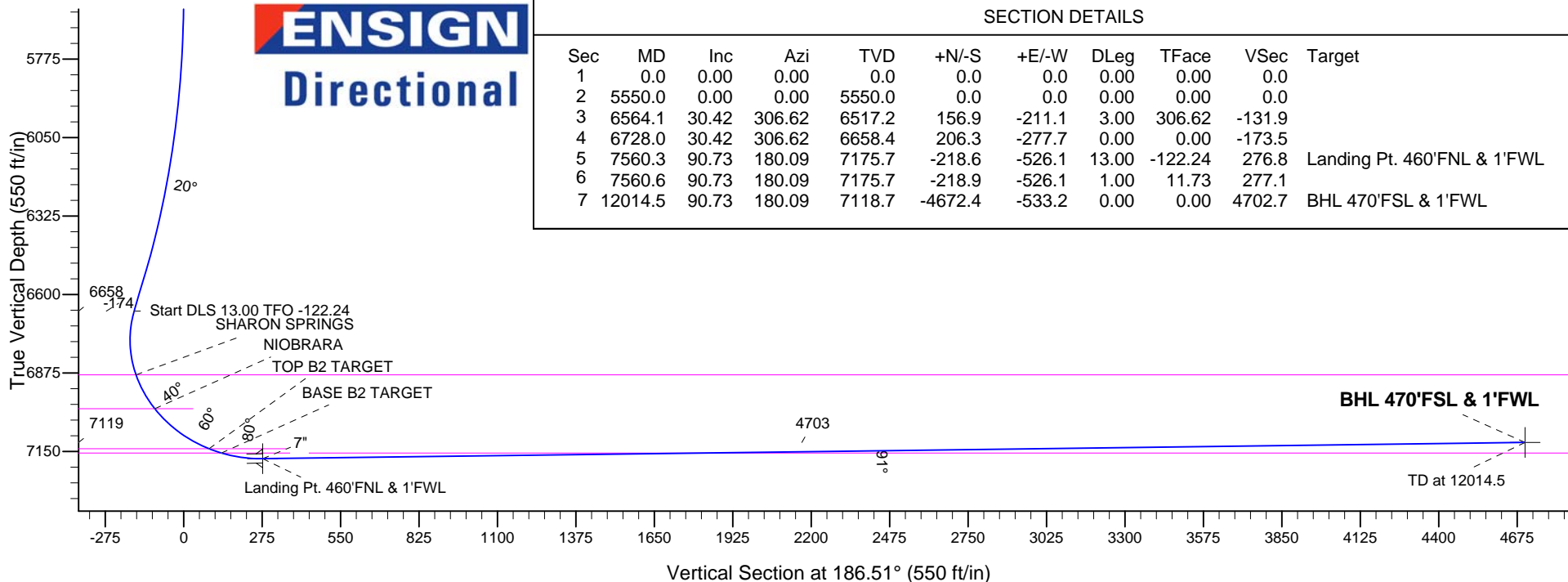
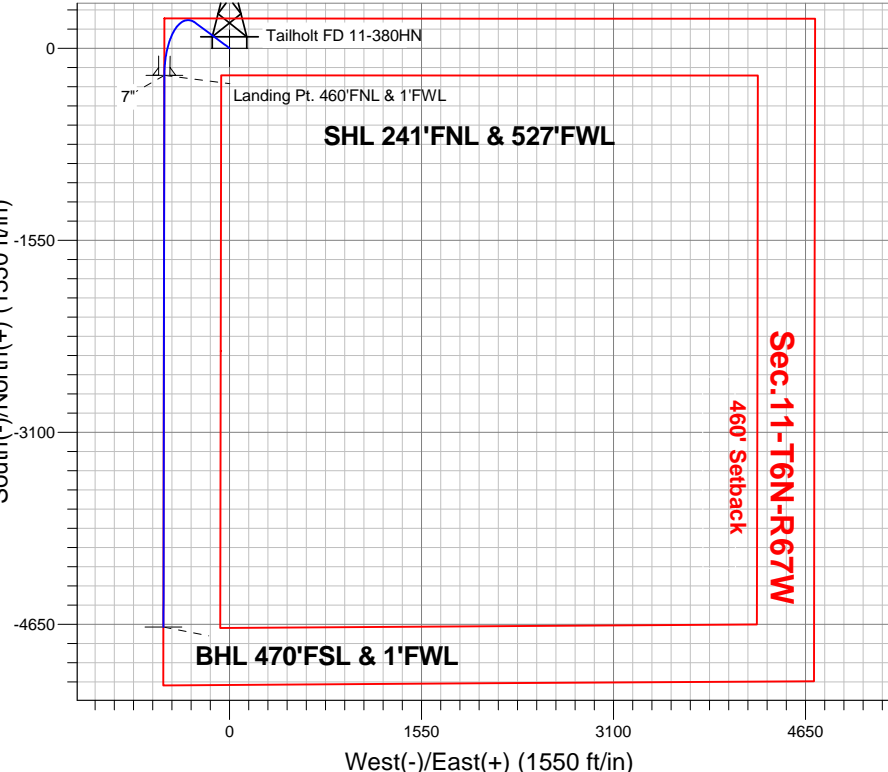
Magnetic Field
Strength: 52937.8snT
Dip Angle: 67.04°
Date: 9/20/2013
Model: IGRF2010

Tailholt FD Horizontal Pad Sec.11-T6N-R67W
Tailholt FD 11-380HN
Plan #2 (10-22-13)
7:51, October 23 2013

ANNOTATIONS

TVD	MD	Annotation
5550.0	5550.0	KOP - Start Build 3.00
6658.4	6728.0	Start DLS 13.00 TFO -122.24
7118.7	12014.5	TD at 12014.5

South(-)/North(+) (1550 ft/in)



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	5550.0	0.00	0.00	5550.0	0.0	0.0	0.00	0.00	0.0	
3	6564.1	30.42	306.62	6517.2	156.9	-211.1	3.00	306.62	-131.9	
4	6728.0	30.42	306.62	6658.4	206.3	-277.7	0.00	0.00	-173.5	
5	7560.3	90.73	180.09	7175.7	-218.6	-526.1	13.00	-122.24	276.8	Landing Pt. 460'FNL & 1'FWL
6	7560.6	90.73	180.09	7175.7	-218.9	-526.1	1.00	11.73	277.1	
7	12014.5	90.73	180.09	7118.7	-4672.4	-533.2	0.00	0.00	4702.7	BHL 470'FSL & 1'FWL



Great Western

SEC.11-T6N-R67W

Tailholt FD Horizontal Pad Sec.11-T6N-R67W

Tailholt FD 11-380HN

Wellbore #1

Plan: Plan #2 (10-22-13)

Standard Planning Report

23 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	
5,550.0	0.00	0.00	5,550.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,564.1	30.42	306.62	6,517.2	156.9	-211.1	3.00	3.00	0.00	306.62	
6,728.0	30.42	306.62	6,658.4	206.3	-277.7	0.00	0.00	0.00	0.00	
7,560.3	90.73	180.09	7,175.7	-218.6	-526.1	13.00	7.25	-15.20	-122.24	Landing Pt. 460'FN
7,560.6	90.73	180.09	7,175.7	-218.9	-526.1	1.00	0.98	0.20	11.73	
12,014.5	90.73	180.09	7,118.7	-4,672.4	-533.2	0.00	0.00	0.00	0.00	BHL 470'FSL & 1'F

Database:	Landmark	Local Co-ordinate Reference:	Well Tailholt FD 11-380HN
Company:	Great Western	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Project:	SEC.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	North Reference:	True
Well:	Tailholt FD 11-380HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (10-22-13)		

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
SHL 241'FNL & 527'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
1,061.7	0.00	0.00	1,061.7	0.0	0.0	0.0	0.00	0.00	0.00
PIERRE									
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
3,658.7	0.00	0.00	3,658.7	0.0	0.0	0.0	0.00	0.00	0.00
PARKMAN									
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
4,195.7	0.00	0.00	4,195.7	0.0	0.0	0.0	0.00	0.00	0.00
SUSSEX									
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

Database:	Landmark	Local Co-ordinate Reference:	Well Tailholt FD 11-380HN
Company:	Great Western	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Project:	SEC.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	North Reference:	True
Well:	Tailholt FD 11-380HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (10-22-13)		

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)
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,763.7	0.00	0.00	4,763.7	0.0	0.0	0.0	0.00	0.00	0.00
SHANNON									
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
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
5,550.0	0.00	0.00	5,550.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 3.00									
5,600.0	1.50	306.62	5,600.0	0.4	-0.5	-0.3	3.00	3.00	0.00
5,700.0	4.50	306.62	5,699.8	3.5	-4.7	-3.0	3.00	3.00	0.00
5,800.0	7.50	306.62	5,799.3	9.7	-13.1	-8.2	3.00	3.00	0.00
5,900.0	10.50	306.62	5,898.0	19.1	-25.7	-16.0	3.00	3.00	0.00
6,000.0	13.50	306.62	5,995.8	31.5	-42.4	-26.5	3.00	3.00	0.00
6,100.0	16.50	306.62	6,092.4	46.9	-63.1	-39.4	3.00	3.00	0.00
6,200.0	19.50	306.62	6,187.5	65.3	-87.9	-54.9	3.00	3.00	0.00
6,300.0	22.50	306.62	6,280.9	86.7	-116.7	-72.9	3.00	3.00	0.00
6,400.0	25.50	306.62	6,372.2	111.0	-149.3	-93.3	3.00	3.00	0.00
6,500.0	28.50	306.62	6,461.3	138.0	-185.8	-116.1	3.00	3.00	0.00
6,564.1	30.42	306.62	6,517.2	156.9	-211.1	-131.9	3.00	3.00	0.00
6,600.0	30.42	306.62	6,548.1	167.7	-225.7	-141.0	0.00	0.00	0.00
6,700.0	30.42	306.62	6,634.3	197.9	-266.3	-166.4	0.00	0.00	0.00
6,728.0	30.42	306.62	6,658.4	206.3	-277.7	-173.5	0.00	0.00	0.00
Start DLS 13.00 TFO -122.24									
6,800.0	26.52	288.67	6,721.8	222.4	-307.6	-186.1	13.00	-5.42	-24.93
6,900.0	25.81	258.96	6,812.0	225.4	-350.3	-184.2	13.00	-0.71	-29.71
6,978.5	29.29	238.10	6,881.7	211.9	-383.5	-167.1	13.00	4.44	-26.58
SHARON SPRINGS									
7,000.0	30.73	233.30	6,900.3	205.9	-392.4	-160.1	13.00	6.70	-22.29
7,100.0	39.21	215.95	6,982.4	164.8	-431.6	-114.8	13.00	8.48	-17.35
7,124.0	41.55	212.77	7,000.7	152.0	-440.3	-101.1	13.00	9.75	-13.28
NIOBRARA									
7,200.0	49.43	204.38	7,054.0	104.4	-466.0	-50.9	13.00	10.37	-11.04
7,300.0	60.49	196.00	7,111.4	27.6	-493.8	28.5	13.00	11.06	-8.38
7,367.8	68.25	191.34	7,140.7	-31.7	-508.1	89.1	13.00	11.43	-6.87
TOP B2 TARGET									
7,400.0	71.97	189.31	7,151.6	-61.5	-513.5	119.3	13.00	11.57	-6.30
7,413.7	73.56	188.48	7,155.7	-74.4	-515.5	132.4	13.00	11.62	-6.10
BASE B2 TARGET									
7,500.0	83.65	183.46	7,172.7	-158.4	-524.3	216.8	13.00	11.69	-5.81
7,560.3	90.73	180.09	7,175.7	-218.6	-526.1	276.8	13.00	11.74	-5.59
7" - Landing Pt. 460'FNL & 1'FWL									
7,560.6	90.73	180.09	7,175.7	-218.9	-526.1	277.1	1.02	1.00	0.19
7,600.0	90.73	180.09	7,175.2	-258.3	-526.2	316.3	0.00	0.00	0.00
7,700.0	90.73	180.09	7,173.9	-358.3	-526.3	415.6	0.00	0.00	0.00
7,800.0	90.73	180.09	7,172.6	-458.3	-526.5	515.0	0.00	0.00	0.00
7,900.0	90.73	180.09	7,171.4	-558.3	-526.7	614.4	0.00	0.00	0.00
8,000.0	90.73	180.09	7,170.1	-658.2	-526.8	713.7	0.00	0.00	0.00
8,100.0	90.73	180.09	7,168.8	-758.2	-527.0	813.1	0.00	0.00	0.00

Planned Survey		BHL 470'FSL & 1'FWL							
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)
8,200.0	90.73	180.09	7,167.5	-858.2	-527.1	912.5	0.00	0.00	0.00
8,300.0	90.73	180.09	7,166.2	-958.2	-527.3	1,011.8	0.00	0.00	0.00
8,400.0	90.73	180.09	7,165.0	-1,058.2	-527.5	1,111.2	0.00	0.00	0.00
8,500.0	90.73	180.09	7,163.7	-1,158.2	-527.6	1,210.6	0.00	0.00	0.00
8,600.0	90.73	180.09	7,162.4	-1,258.2	-527.8	1,309.9	0.00	0.00	0.00
8,700.0	90.73	180.09	7,161.1	-1,358.2	-527.9	1,409.3	0.00	0.00	0.00
8,800.0	90.73	180.09	7,159.8	-1,458.2	-528.1	1,508.6	0.00	0.00	0.00
8,900.0	90.73	180.09	7,158.6	-1,558.2	-528.2	1,608.0	0.00	0.00	0.00
9,000.0	90.73	180.09	7,157.3	-1,658.2	-528.4	1,707.4	0.00	0.00	0.00
9,100.0	90.73	180.09	7,156.0	-1,758.2	-528.6	1,806.7	0.00	0.00	0.00
9,200.0	90.73	180.09	7,154.7	-1,858.1	-528.7	1,906.1	0.00	0.00	0.00
9,300.0	90.73	180.09	7,153.4	-1,958.1	-528.9	2,005.5	0.00	0.00	0.00
9,400.0	90.73	180.09	7,152.2	-2,058.1	-529.0	2,104.8	0.00	0.00	0.00
9,500.0	90.73	180.09	7,150.9	-2,158.1	-529.2	2,204.2	0.00	0.00	0.00
9,600.0	90.73	180.09	7,149.6	-2,258.1	-529.4	2,303.6	0.00	0.00	0.00
9,700.0	90.73	180.09	7,148.3	-2,358.1	-529.5	2,402.9	0.00	0.00	0.00
9,800.0	90.73	180.09	7,147.0	-2,458.1	-529.7	2,502.3	0.00	0.00	0.00
9,900.0	90.73	180.09	7,145.8	-2,558.1	-529.8	2,601.7	0.00	0.00	0.00
10,000.0	90.73	180.09	7,144.5	-2,658.1	-530.0	2,701.0	0.00	0.00	0.00
10,100.0	90.73	180.09	7,143.2	-2,758.1	-530.1	2,800.4	0.00	0.00	0.00
10,200.0	90.73	180.09	7,141.9	-2,858.1	-530.3	2,899.8	0.00	0.00	0.00
10,300.0	90.73	180.09	7,140.6	-2,958.1	-530.5	2,999.1	0.00	0.00	0.00
10,400.0	90.73	180.09	7,139.4	-3,058.0	-530.6	3,098.5	0.00	0.00	0.00
10,500.0	90.73	180.09	7,138.1	-3,158.0	-530.8	3,197.8	0.00	0.00	0.00
10,600.0	90.73	180.09	7,136.8	-3,258.0	-530.9	3,297.2	0.00	0.00	0.00
10,700.0	90.73	180.09	7,135.5	-3,358.0	-531.1	3,396.6	0.00	0.00	0.00
10,800.0	90.73	180.09	7,134.2	-3,458.0	-531.2	3,495.9	0.00	0.00	0.00
10,900.0	90.73	180.09	7,133.0	-3,558.0	-531.4	3,595.3	0.00	0.00	0.00
11,000.0	90.73	180.09	7,131.7	-3,658.0	-531.6	3,694.7	0.00	0.00	0.00
11,100.0	90.73	180.09	7,130.4	-3,758.0	-531.7	3,794.0	0.00	0.00	0.00
11,200.0	90.73	180.09	7,129.1	-3,858.0	-531.9	3,893.4	0.00	0.00	0.00
11,300.0	90.73	180.09	7,127.8	-3,958.0	-532.0	3,992.8	0.00	0.00	0.00
11,400.0	90.73	180.09	7,126.6	-4,058.0	-532.2	4,092.1	0.00	0.00	0.00
11,500.0	90.73	180.09	7,125.3	-4,158.0	-532.4	4,191.5	0.00	0.00	0.00
11,600.0	90.73	180.09	7,124.0	-4,257.9	-532.5	4,290.9	0.00	0.00	0.00
11,700.0	90.73	180.09	7,122.7	-4,357.9	-532.7	4,390.2	0.00	0.00	0.00
11,800.0	90.73	180.09	7,121.4	-4,457.9	-532.8	4,489.6	0.00	0.00	0.00
11,900.0	90.73	180.09	7,120.2	-4,557.9	-533.0	4,589.0	0.00	0.00	0.00
12,000.0	90.73	180.09	7,118.9	-4,657.9	-533.1	4,688.3	0.00	0.00	0.00
12,014.5	90.73	180.09	7,118.7	-4,672.4	-533.2	4,702.7	0.00	0.00	0.00
BHL 470'FSL & 1'FWL									

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
7,560.3	7,175.7	7"		7	7-1/2	

Database:	Landmark	Local Co-ordinate Reference:	Well Tailholt FD 11-380HN
Company:	Great Western	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Project:	SEC.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	North Reference:	True
Well:	Tailholt FD 11-380HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (10-22-13)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,061.7	1,061.7	PIERRE		0.00		
3,658.7	3,658.7	PARKMAN		0.00		
4,195.7	4,195.7	SUSSEX		0.00		
4,763.7	4,763.7	SHANNON		0.00		
6,978.5	6,881.7	SHARON SPRINGS		0.00		
7,124.0	7,000.7	NIOBRARA		0.00		
7,367.8	7,140.7	TOP B2 TARGET		0.00		
7,413.7	7,155.7	BASE B2 TARGET		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
5,550.0	5,550.0	0.0	0.0	KOP - Start Build 3.00	
6,728.0	6,658.4	206.3	-277.7	Start DLS 13.00 TFO -122.24	
12,014.5	7,118.7	-4,672.4	-533.2	TD at 12014.5	



Great Western

SEC.11-T6N-R67W

Tailholt FD Horizontal Pad Sec.11-T6N-R67W

Tailholt FD 11-380HN

Wellbore #1

Plan #2 (10-22-13)

Anticollision Report

23 October, 2013

Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Reference	Plan #2 (10-22-13)		
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 10/22/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,014.5	Plan #2 (10-22-13) (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s

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						
Tailholt FD Horizontal Pad Sec.11-T6N-R67W						
Tailholt FD 11-35HN - Wellbore #1 - Wellbore #1	4,538.5	4,540.8	41.7	21.4	2.054	CC, ES
Tailholt FD 11-35HN - Wellbore #1 - Wellbore #1	4,600.0	4,601.9	42.0	21.4	2.041	SF
Tailholt FD 11-374HN - Wellbore #1 - Plan #4 (10-22-13)	4,900.0	4,900.0	80.4	54.6	3.121	CC, ES, SF
Tailholt FD 11-378HC - Wellbore #1 - Plan #3 (10-14-13)	833.3	833.3	40.0	36.2	10.428	CC
Tailholt FD 11-378HC - Wellbore #1 - Plan #3 (10-14-13)	1,000.0	999.9	40.2	35.5	8.630	ES
Tailholt FD 11-378HC - Wellbore #1 - Plan #3 (10-14-13)	12,014.5	12,041.9	753.7	622.6	5.747	SF
Tailholt FD 11-379HN - Wellbore #1 - Plan #4 (10-22-13)	5,500.0	5,500.0	20.0	-8.9	0.692	Level 1, CC
Tailholt FD 11-379HN - Wellbore #1 - Plan #4 (10-22-13)	5,528.2	5,528.2	20.1	-9.0	0.691	Level 1, ES, SF

Offset Design Tailholt FD Horizontal Pad Sec.11-T6N-R67W - Tailholt FD 11-35HN - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 100-NS-GYRO-MS, 7648-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
0.0	0.0	1.8	1.8	0.0	0.0	90.07	-0.1	60.1	60.1	60.1	0.00	N/A	
100.0	100.0	101.9	101.9	0.1	0.1	90.30	-0.3	60.0	60.0	59.7	0.27	221.760	
200.0	200.0	201.9	201.8	0.4	0.4	90.80	-0.8	59.9	59.9	59.1	0.80	74.799	
300.0	300.0	302.0	302.0	0.7	0.7	91.15	-1.2	59.7	59.7	58.4	1.33	44.973	
400.0	400.0	401.9	401.9	0.9	0.9	91.43	-1.5	59.5	59.5	57.6	1.85	32.117	
500.0	500.0	502.0	502.0	1.2	1.2	91.67	-1.7	59.2	59.2	56.8	2.37	24.980	
600.0	600.0	602.2	602.2	1.5	1.4	91.93	-2.0	58.5	58.6	55.7	2.88	20.371	
700.0	700.0	702.5	702.5	1.7	1.7	92.38	-2.4	57.5	57.6	54.2	3.39	16.985	
800.0	800.0	802.8	802.8	2.0	1.9	92.96	-2.9	55.9	56.0	52.1	3.90	14.340	
900.0	900.0	902.9	902.8	2.3	2.2	93.67	-3.5	54.1	54.2	49.8	4.42	12.254	
1,000.0	1,000.0	1,003.1	1,003.0	2.5	2.4	94.29	-3.9	51.9	52.1	47.1	4.94	10.546	
1,100.0	1,100.0	1,103.3	1,103.2	2.8	2.7	94.93	-4.3	49.4	49.6	44.1	5.45	9.095	
1,200.0	1,200.0	1,203.3	1,203.1	3.1	2.9	95.59	-4.6	46.6	46.8	40.8	5.97	7.841	
1,300.0	1,300.0	1,303.0	1,302.8	3.3	3.2	96.37	-4.9	43.8	44.1	37.6	6.49	6.804	
1,400.0	1,400.0	1,402.2	1,402.0	3.6	3.4	97.38	-5.5	42.7	43.1	36.1	7.01	6.143	
1,496.0	1,496.0	1,498.0	1,497.8	3.8	3.7	98.44	-6.3	42.3	42.8	35.3	7.50	5.707	
1,500.0	1,500.0	1,502.0	1,501.8	3.8	3.7	98.49	-6.3	42.3	42.8	35.3	7.51	5.693	
1,600.0	1,600.0	1,601.5	1,601.3	4.1	3.8	99.81	-7.5	43.1	43.8	35.9	7.91	5.538	
1,700.0	1,700.0	1,701.6	1,701.3	4.4	3.9	100.80	-8.4	44.2	45.0	36.7	8.28	5.432	
1,800.0	1,800.0	1,801.7	1,801.5	4.6	3.9	100.00	-7.9	45.1	45.8	37.2	8.56	5.352	

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 Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 100-NS-GYRO-MS, 7648-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	
1,900.0	1,900.0	1,902.0	1,901.8	4.9	3.9	98.86	-7.1	45.5	46.1	37.2	8.85	5.205	
2,000.0	2,000.0	2,002.2	2,002.0	5.2	4.0	97.59	-6.1	45.5	45.9	36.7	9.20	4.991	
2,099.0	2,099.0	2,101.1	2,100.8	5.4	4.1	96.17	-4.9	45.3	45.6	36.0	9.57	4.761	
2,100.0	2,100.0	2,102.0	2,101.8	5.4	4.1	96.16	-4.9	45.3	45.6	36.0	9.57	4.759	
2,200.0	2,200.0	2,201.9	2,201.7	5.7	4.2	95.01	-4.0	45.6	45.7	35.8	9.92	4.610	
2,300.0	2,300.0	2,301.7	2,301.5	6.0	4.3	94.06	-3.3	46.0	46.1	35.8	10.28	4.483	
2,400.0	2,400.0	2,401.1	2,400.8	6.2	4.4	93.06	-2.5	47.3	47.3	36.7	10.63	4.454	
2,500.0	2,500.0	2,501.1	2,500.8	6.5	4.5	92.12	-1.8	49.4	49.4	38.5	10.99	4.498	
2,600.0	2,600.0	2,601.2	2,600.9	6.8	4.6	91.27	-1.1	51.3	51.3	39.9	11.37	4.511	
2,700.0	2,700.0	2,701.3	2,701.0	7.0	4.7	90.54	-0.5	52.9	52.9	41.1	11.76	4.496	
2,800.0	2,800.0	2,801.6	2,801.3	7.3	4.9	89.98	0.0	54.1	54.1	42.0	12.16	4.450	
2,900.0	2,900.0	2,901.8	2,901.5	7.6	5.0	89.61	0.4	54.9	54.9	42.3	12.57	4.365	
3,000.0	3,000.0	3,002.2	3,001.8	7.8	5.2	89.86	0.1	55.1	55.1	42.1	13.01	4.239	
3,100.0	3,100.0	3,102.2	3,101.9	8.1	5.4	90.88	-0.8	55.0	55.0	41.5	13.46	4.084	
3,200.0	3,200.0	3,202.3	3,201.9	8.4	5.6	91.69	-1.6	54.7	54.7	40.8	13.93	3.930	
3,300.0	3,300.0	3,302.3	3,301.9	8.6	5.8	92.42	-2.3	54.4	54.5	40.1	14.40	3.785	
3,400.0	3,400.0	3,402.2	3,401.8	8.9	6.0	93.28	-3.1	54.3	54.4	39.5	14.87	3.656	
3,500.0	3,500.0	3,502.3	3,501.9	9.2	6.2	94.20	-4.0	54.1	54.3	38.9	15.35	3.536	
3,600.0	3,600.0	3,602.6	3,602.2	9.4	6.4	95.02	-4.7	53.5	53.8	37.9	15.83	3.396	
3,700.0	3,700.0	3,702.8	3,702.5	9.7	6.6	95.86	-5.4	52.5	52.8	36.5	16.31	3.236	
3,800.0	3,800.0	3,803.3	3,802.9	10.0	6.8	96.46	-5.8	50.8	51.1	34.3	16.78	3.044	
3,900.0	3,900.0	3,903.3	3,902.9	10.2	7.0	97.12	-6.0	48.3	48.7	31.4	17.26	2.821	
4,000.0	4,000.0	4,002.8	4,002.4	10.5	7.2	97.39	-6.0	46.4	46.8	29.1	17.73	2.640	
4,100.0	4,100.0	4,102.5	4,102.1	10.8	7.4	97.49	-6.0	45.6	46.0	27.8	18.20	2.525	
4,200.0	4,200.0	4,202.7	4,202.2	11.0	7.6	97.26	-5.7	44.8	45.2	26.5	18.66	2.422	
4,300.0	4,300.0	4,302.9	4,302.5	11.3	7.9	97.49	-5.7	43.5	43.8	24.7	19.14	2.290	
4,400.0	4,400.0	4,402.7	4,402.2	11.5	8.1	98.52	-6.3	42.1	42.5	22.9	19.64	2.166	
4,500.0	4,500.0	4,502.4	4,501.9	11.8	8.3	99.50	-6.9	41.2	41.8	21.7	20.14	2.076	
4,538.5	4,538.5	4,540.8	4,540.3	11.9	8.4	99.62	-7.0	41.2	41.7	21.4	20.32	2.054 CC, ES	
4,600.0	4,600.0	4,601.9	4,601.4	12.1	8.5	99.86	-7.2	41.4	42.0	21.4	20.59	2.041 SF	
4,700.0	4,700.0	4,701.7	4,701.2	12.3	8.6	99.59	-7.2	42.6	43.2	22.2	20.97	2.059	
4,800.0	4,800.0	4,801.8	4,801.3	12.6	8.7	98.43	-6.5	43.9	44.4	23.1	21.33	2.081	
4,900.0	4,900.0	4,901.7	4,901.2	12.9	8.8	97.30	-5.8	45.2	45.6	23.9	21.71	2.101	
5,000.0	5,000.0	5,001.6	5,001.1	13.1	9.0	96.61	-5.4	46.7	47.0	24.9	22.09	2.129	
5,100.0	5,100.0	5,101.7	5,101.2	13.4	9.1	96.40	-5.4	48.2	48.5	26.0	22.49	2.155	
5,200.0	5,200.0	5,201.8	5,201.2	13.7	9.2	96.52	-5.6	49.3	49.7	26.8	22.90	2.168	
5,300.0	5,300.0	5,301.8	5,301.3	13.9	9.4	96.86	-6.1	50.4	50.8	27.4	23.33	2.176	
5,400.0	5,400.0	5,401.9	5,401.4	14.2	9.6	97.18	-6.5	51.3	51.7	27.9	23.76	2.175	
5,500.0	5,500.0	5,501.9	5,501.4	14.5	9.7	97.27	-6.6	52.0	52.4	28.3	24.19	2.168	
5,600.0	5,600.0	5,600.6	5,600.1	14.7	9.9	150.00	-5.9	53.8	54.7	30.1	24.58	2.224	
5,700.0	5,699.8	5,700.4	5,699.8	14.9	10.0	149.73	-3.5	57.2	62.4	37.5	24.88	2.507	
5,800.0	5,799.3	5,800.3	5,799.5	15.1	10.2	150.49	0.1	60.8	74.6	49.5	25.14	2.968	
5,900.0	5,898.0	5,896.3	5,895.0	15.3	10.3	149.27	8.5	65.6	92.0	66.7	25.34	3.632	
6,000.0	5,995.8	5,991.2	5,988.8	15.6	10.4	147.38	20.8	73.2	116.3	90.8	25.52	4.560	
6,100.0	6,092.4	6,086.8	6,083.0	15.8	10.6	146.51	34.4	81.7	145.8	120.2	25.65	5.686	
6,200.0	6,187.5	6,174.2	6,168.7	16.0	10.7	145.71	49.2	91.4	181.2	155.4	25.74	7.039	
6,300.0	6,280.9	6,256.0	6,248.5	16.2	10.9	145.85	61.7	103.2	223.9	198.1	25.76	8.691	
6,400.0	6,372.2	6,332.4	6,322.8	16.5	11.0	146.12	73.0	117.8	274.6	248.9	25.73	10.673	
6,500.0	6,461.3	6,409.7	6,396.5	16.7	11.1	145.48	88.6	134.8	331.1	305.4	25.69	12.888	
6,600.0	6,548.1	6,475.0	6,457.2	17.0	11.3	144.43	106.4	151.0	392.7	366.9	25.80	15.223	
6,700.0	6,634.3	6,525.0	6,501.8	17.2	11.4	143.69	123.4	165.7	458.5	432.4	26.15	17.538	
6,800.0	6,721.8	6,575.0	6,544.9	17.5	11.5	167.32	141.9	183.0	528.3	502.2	26.12	20.225	

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 Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Offset Design Tailholt FD Horizontal Pad Sec.11-T6N-R67W - Tailholt FD 11-35HN - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 100-NS-GYRO-MS, 7648-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
6,900.0	6,812.0	6,617.2	6,580.9	17.7	11.6	-155.14	156.8	199.2	600.8	573.9	26.85	22.373	
7,000.0	6,900.3	6,643.1	6,602.5	17.8	11.6	-121.65	166.0	210.0	673.9	645.8	28.13	23.956	
7,100.0	6,982.4	6,658.7	6,615.3	17.9	11.7	-97.23	171.8	216.9	746.1	717.2	28.96	25.760	
7,200.0	7,054.0	6,666.9	6,621.9	17.9	11.7	-80.15	174.9	220.7	815.3	786.7	28.65	28.454	
7,300.0	7,111.4	6,675.0	6,628.3	17.9	11.7	-68.68	178.0	224.5	879.5	852.2	27.31	32.201	
7,400.0	7,151.6	6,664.4	6,619.8	17.9	11.7	-59.80	174.0	219.5	936.8	911.5	25.23	37.132	
7,500.0	7,172.7	6,650.0	6,608.2	17.9	11.6	-53.92	168.6	213.0	985.5	962.2	23.34	42.221	

Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS												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	90.03	0.0	80.4	80.4				
100.0	100.0	100.0	100.0	0.1	0.1	90.03	0.0	80.4	80.4	80.1	0.27	302.749	
200.0	200.0	200.0	200.0	0.4	0.4	90.03	0.0	80.4	80.4	79.6	0.80	100.916	
300.0	300.0	300.0	300.0	0.7	0.7	90.03	0.0	80.4	80.4	79.0	1.33	60.550	
400.0	400.0	400.0	400.0	0.9	0.9	90.03	0.0	80.4	80.4	78.5	1.86	43.250	
500.0	500.0	500.0	500.0	1.2	1.2	90.03	0.0	80.4	80.4	78.0	2.39	33.639	
600.0	600.0	600.0	600.0	1.5	1.5	90.03	0.0	80.4	80.4	77.4	2.92	27.523	
700.0	700.0	700.0	700.0	1.7	1.7	90.03	0.0	80.4	80.4	76.9	3.45	23.288	
800.0	800.0	800.0	800.0	2.0	2.0	90.03	0.0	80.4	80.4	76.4	3.98	20.183	
900.0	900.0	900.0	900.0	2.3	2.3	90.03	0.0	80.4	80.4	75.9	4.51	17.809	
1,000.0	1,000.0	1,000.0	1,000.0	2.5	2.5	90.03	0.0	80.4	80.4	75.3	5.04	15.934	
1,100.0	1,100.0	1,100.0	1,100.0	2.8	2.8	90.03	0.0	80.4	80.4	74.8	5.57	14.417	
1,200.0	1,200.0	1,200.0	1,200.0	3.1	3.1	90.03	0.0	80.4	80.4	74.3	6.11	13.163	
1,300.0	1,300.0	1,300.0	1,300.0	3.3	3.3	90.03	0.0	80.4	80.4	73.7	6.64	12.110	
1,400.0	1,400.0	1,400.0	1,400.0	3.6	3.6	90.03	0.0	80.4	80.4	73.2	7.17	11.213	
1,500.0	1,500.0	1,500.0	1,500.0	3.8	3.8	90.03	0.0	80.4	80.4	72.7	7.70	10.440	
1,600.0	1,600.0	1,600.0	1,600.0	4.1	4.1	90.03	0.0	80.4	80.4	72.1	8.23	9.766	
1,700.0	1,700.0	1,700.0	1,700.0	4.4	4.4	90.03	0.0	80.4	80.4	71.6	8.76	9.174	
1,800.0	1,800.0	1,800.0	1,800.0	4.6	4.6	90.03	0.0	80.4	80.4	71.1	9.29	8.650	
1,900.0	1,900.0	1,900.0	1,900.0	4.9	4.9	90.03	0.0	80.4	80.4	70.5	9.82	8.182	
2,000.0	2,000.0	2,000.0	2,000.0	5.2	5.2	90.03	0.0	80.4	80.4	70.0	10.35	7.763	
2,100.0	2,100.0	2,100.0	2,100.0	5.4	5.4	90.03	0.0	80.4	80.4	69.5	10.88	7.384	
2,200.0	2,200.0	2,200.0	2,200.0	5.7	5.7	90.03	0.0	80.4	80.4	68.9	11.41	7.041	
2,300.0	2,300.0	2,300.0	2,300.0	6.0	6.0	90.03	0.0	80.4	80.4	68.4	11.95	6.728	
2,400.0	2,400.0	2,400.0	2,400.0	6.2	6.2	90.03	0.0	80.4	80.4	67.9	12.48	6.441	
2,500.0	2,500.0	2,500.0	2,500.0	6.5	6.5	90.03	0.0	80.4	80.4	67.4	13.01	6.179	
2,600.0	2,600.0	2,600.0	2,600.0	6.8	6.8	90.03	0.0	80.4	80.4	66.8	13.54	5.936	
2,700.0	2,700.0	2,700.0	2,700.0	7.0	7.0	90.03	0.0	80.4	80.4	66.3	14.07	5.712	
2,800.0	2,800.0	2,800.0	2,800.0	7.3	7.3	90.03	0.0	80.4	80.4	65.8	14.60	5.505	
2,900.0	2,900.0	2,900.0	2,900.0	7.6	7.6	90.03	0.0	80.4	80.4	65.2	15.13	5.311	
3,000.0	3,000.0	3,000.0	3,000.0	7.8	7.8	90.03	0.0	80.4	80.4	64.7	15.66	5.131	
3,100.0	3,100.0	3,100.0	3,100.0	8.1	8.1	90.03	0.0	80.4	80.4	64.2	16.19	4.963	
3,200.0	3,200.0	3,200.0	3,200.0	8.4	8.4	90.03	0.0	80.4	80.4	63.6	16.72	4.806	
3,300.0	3,300.0	3,300.0	3,300.0	8.6	8.6	90.03	0.0	80.4	80.4	63.1	17.25	4.658	
3,400.0	3,400.0	3,400.0	3,400.0	8.9	8.9	90.03	0.0	80.4	80.4	62.6	17.78	4.519	
3,500.0	3,500.0	3,500.0	3,500.0	9.2	9.2	90.03	0.0	80.4	80.4	62.0	18.32	4.388	
3,600.0	3,600.0	3,600.0	3,600.0	9.4	9.4	90.03	0.0	80.4	80.4	61.5	18.85	4.264	
3,700.0	3,700.0	3,700.0	3,700.0	9.7	9.7	90.03	0.0	80.4	80.4	61.0	19.38	4.147	
3,800.0	3,800.0	3,800.0	3,800.0	10.0	10.0	90.03	0.0	80.4	80.4	60.5	19.91	4.037	
3,900.0	3,900.0	3,900.0	3,900.0	10.2	10.2	90.03	0.0	80.4	80.4	59.9	20.44	3.932	
4,000.0	4,000.0	4,000.0	4,000.0	10.5	10.5	90.03	0.0	80.4	80.4	59.4	20.97	3.832	
4,100.0	4,100.0	4,100.0	4,100.0	10.8	10.8	90.03	0.0	80.4	80.4	58.9	21.50	3.738	
4,200.0	4,200.0	4,200.0	4,200.0	11.0	11.0	90.03	0.0	80.4	80.4	58.3	22.03	3.648	
4,300.0	4,300.0	4,300.0	4,300.0	11.3	11.3	90.03	0.0	80.4	80.4	57.8	22.56	3.562	
4,400.0	4,400.0	4,400.0	4,400.0	11.5	11.5	90.03	0.0	80.4	80.4	57.3	23.09	3.480	
4,500.0	4,500.0	4,500.0	4,500.0	11.8	11.8	90.03	0.0	80.4	80.4	56.7	23.62	3.402	
4,600.0	4,600.0	4,600.0	4,600.0	12.1	12.1	90.03	0.0	80.4	80.4	56.2	24.16	3.327	
4,700.0	4,700.0	4,700.0	4,700.0	12.3	12.3	90.03	0.0	80.4	80.4	55.7	24.69	3.255	
4,800.0	4,800.0	4,800.0	4,800.0	12.6	12.6	90.03	0.0	80.4	80.4	55.1	25.22	3.187	
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	90.03	0.0	80.4	80.4	54.6	25.75	3.121 CC, ES, SF	
5,000.0	5,000.0	4,996.0	4,996.0	13.1	13.1	89.55	0.6	82.7	82.8	56.6	26.22	3.157	
5,100.0	5,100.0	5,091.6	5,091.3	13.4	13.2	88.27	2.7	89.6	90.0	63.4	26.64	3.380	

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 Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Offset Design		Tailholt FD Horizontal Pad Sec.11-T6N-R67W - Tailholt FD 11-374HN - Wellbore #1 - Plan #4 (10-22-13)										Offset Site Error:		0.0 ft			
Survey Program: 0-NS-GYRO-MS														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	5,186.2	5,185.1	13.7	13.4	86.55	6.1	100.9	102.1	75.1	27.06	3.775					
5,300.0	5,300.0	5,279.4	5,276.9	13.9	13.5	84.74	10.7	116.4	119.1	91.6	27.48	4.334					
5,400.0	5,400.0	5,370.8	5,366.1	14.2	13.7	83.07	16.5	135.7	140.8	112.9	27.91	5.047					
5,500.0	5,500.0	5,460.1	5,452.1	14.5	13.9	81.63	23.3	158.5	167.2	138.9	28.33	5.902					
5,600.0	5,600.0	5,546.8	5,534.5	14.7	14.0	133.58	31.0	184.3	198.5	169.8	28.70	6.916					
5,700.0	5,699.8	5,629.8	5,612.1	14.9	14.2	132.58	39.4	212.3	236.8	207.8	29.00	8.167					
5,800.0	5,799.3	5,708.2	5,684.3	15.1	14.3	132.07	48.2	241.8	282.3	253.0	29.26	9.648					
5,900.0	5,898.0	5,781.7	5,750.7	15.3	14.5	131.73	57.2	271.9	334.2	304.8	29.47	11.342					
6,000.0	5,995.8	5,850.0	5,811.3	15.6	14.6	131.38	66.2	302.1	392.3	362.7	29.64	13.236					
6,100.0	6,092.4	5,912.7	5,865.9	15.8	14.8	130.88	75.1	331.7	456.0	426.2	29.77	15.316					
6,200.0	6,187.5	5,981.1	5,924.7	16.0	15.0	130.45	85.1	365.2	524.2	494.3	29.88	17.542					
6,300.0	6,280.9	6,050.2	5,984.0	16.2	15.1	130.03	95.3	399.2	595.3	565.3	29.97	19.861					
6,400.0	6,372.2	6,116.2	6,040.6	16.5	15.3	129.47	105.0	431.6	668.9	638.9	30.04	22.268					
6,500.0	6,461.3	6,178.7	6,094.3	16.7	15.5	128.72	114.2	462.3	745.2	715.1	30.11	24.752					
6,600.0	6,548.1	6,237.9	6,145.1	17.0	15.6	128.83	122.9	491.4	823.8	793.6	30.22	27.262					
6,700.0	6,634.3	6,296.4	6,195.3	17.2	15.8	130.59	131.5	520.2	903.2	872.8	30.41	29.701					
6,800.0	6,721.8	6,354.8	6,245.5	17.5	16.0	159.93	140.0	548.9	983.5	953.9	29.65	33.174					

Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-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	90.10	-0.1	40.0	40.0				
100.0	100.0	100.0	100.0	0.1	0.1	90.10	-0.1	40.0	40.0	39.8	0.25	163.370	
200.0	200.0	200.0	200.0	0.4	0.3	90.10	-0.1	40.0	40.0	39.3	0.74	54.457	
300.0	300.0	300.0	300.0	0.7	0.6	90.10	-0.1	40.0	40.0	38.8	1.23	32.674	
400.0	400.0	400.0	400.0	0.9	0.8	90.10	-0.1	40.0	40.0	38.3	1.72	23.339	
500.0	500.0	500.0	500.0	1.2	1.0	90.10	-0.1	40.0	40.0	37.8	2.21	18.152	
600.0	600.0	600.0	600.0	1.5	1.2	90.10	-0.1	40.0	40.0	37.3	2.70	14.852	
700.0	700.0	700.0	700.0	1.7	1.5	90.10	-0.1	40.0	40.0	36.9	3.19	12.567	
800.0	800.0	800.0	800.0	2.0	1.7	90.10	-0.1	40.0	40.0	36.4	3.68	10.891	
833.3	833.3	833.3	833.3	2.1	1.8	89.97	0.0	40.0	40.0	36.2	3.84	10.428 CC	
900.0	900.0	900.0	900.0	2.3	1.9	88.86	0.8	40.0	40.1	35.9	4.17	9.612	
1,000.0	1,000.0	999.9	999.9	2.5	2.1	85.13	3.4	40.0	40.2	35.5	4.66	8.630 ES	
1,100.0	1,100.0	1,099.7	1,099.6	2.8	2.4	79.03	7.8	40.0	40.8	35.6	5.15	7.925	
1,200.0	1,200.0	1,198.8	1,198.5	3.1	2.6	74.19	11.8	41.8	43.5	37.8	5.62	7.737	
1,300.0	1,300.0	1,298.7	1,298.3	3.3	2.8	70.71	15.5	44.2	46.9	40.8	6.11	7.681	
1,400.0	1,400.0	1,398.6	1,398.1	3.6	3.0	67.72	19.1	46.7	50.5	43.9	6.60	7.653	
1,500.0	1,500.0	1,498.5	1,498.0	3.8	3.2	65.13	22.8	49.2	54.2	47.1	7.09	7.645	
1,600.0	1,600.0	1,598.4	1,597.8	4.1	3.5	62.87	26.4	51.6	58.0	50.4	7.59	7.649	
1,700.0	1,700.0	1,698.3	1,697.6	4.4	3.7	60.90	30.1	54.1	61.9	53.8	8.08	7.662	
1,800.0	1,800.0	1,798.2	1,797.4	4.6	3.9	59.16	33.8	56.5	65.9	57.3	8.58	7.681	
1,900.0	1,900.0	1,898.1	1,897.2	4.9	4.2	57.62	37.4	59.0	69.9	60.8	9.07	7.703	
2,000.0	2,000.0	1,998.0	1,997.0	5.2	4.4	56.25	41.1	61.4	74.0	64.4	9.57	7.727	
2,100.0	2,100.0	2,097.9	2,096.8	5.4	4.6	55.02	44.7	63.9	78.1	68.0	10.07	7.752	
2,200.0	2,200.0	2,197.8	2,196.6	5.7	4.9	53.91	48.4	66.4	82.2	71.6	10.57	7.778	
2,300.0	2,300.0	2,297.7	2,296.4	6.0	5.1	52.91	52.0	68.8	86.3	75.3	11.06	7.804	
2,400.0	2,400.0	2,297.6	2,296.2	6.2	5.3	52.01	55.7	71.3	90.5	79.0	11.56	7.830	
2,500.0	2,500.0	2,497.5	2,496.0	6.5	5.6	51.18	59.3	73.7	94.7	82.7	12.06	7.855	
2,600.0	2,600.0	2,597.4	2,595.8	6.8	5.8	50.42	63.0	76.2	98.9	86.4	12.55	7.880	
2,700.0	2,700.0	2,697.3	2,695.6	7.0	6.0	49.73	66.6	78.6	103.2	90.1	13.05	7.904	
2,800.0	2,800.0	2,797.2	2,795.4	7.3	6.3	49.09	70.3	81.1	107.4	93.9	13.55	7.927	
2,900.0	2,900.0	2,897.1	2,895.2	7.6	6.5	48.50	73.9	83.6	111.7	97.6	14.05	7.949	
3,000.0	3,000.0	2,997.0	2,995.0	7.8	6.7	47.95	77.6	86.0	115.9	101.4	14.55	7.971	
3,100.0	3,100.0	3,096.9	3,094.8	8.1	7.0	47.44	81.2	88.5	120.2	105.2	15.04	7.992	
3,200.0	3,200.0	3,196.8	3,194.7	8.4	7.2	46.96	84.9	90.9	124.5	109.0	15.54	8.012	
3,300.0	3,300.0	3,296.7	3,294.5	8.6	7.4	46.52	88.5	93.4	128.8	112.8	16.04	8.031	
3,400.0	3,400.0	3,396.6	3,394.3	8.9	7.7	46.11	92.2	95.8	133.1	116.6	16.54	8.050	
3,500.0	3,500.0	3,496.5	3,494.1	9.2	7.9	45.72	95.9	98.3	137.4	120.4	17.03	8.067	
3,600.0	3,600.0	3,596.4	3,593.9	9.4	8.2	45.36	99.5	100.8	141.7	124.2	17.53	8.085	
3,700.0	3,700.0	3,696.3	3,693.7	9.7	8.4	45.01	103.2	103.2	146.1	128.0	18.03	8.101	
3,800.0	3,800.0	3,796.3	3,793.5	10.0	8.6	44.69	106.8	105.7	150.4	131.9	18.53	8.117	
3,900.0	3,900.0	3,896.2	3,893.3	10.2	8.9	44.39	110.5	108.1	154.7	135.7	19.03	8.132	
4,000.0	4,000.0	3,996.1	3,993.1	10.5	9.1	44.10	114.1	110.6	159.1	139.5	19.52	8.147	
4,100.0	4,100.0	4,096.0	4,092.9	10.8	9.3	43.82	117.8	113.0	163.4	143.4	20.02	8.161	
4,200.0	4,200.0	4,195.9	4,192.7	11.0	9.6	43.57	121.4	115.5	167.7	147.2	20.52	8.175	
4,300.0	4,300.0	4,295.8	4,292.5	11.3	9.8	43.32	125.1	118.0	172.1	151.1	21.02	8.188	
4,400.0	4,400.0	4,395.7	4,392.3	11.5	10.0	43.09	128.7	120.4	176.4	154.9	21.52	8.200	
4,500.0	4,500.0	4,495.6	4,492.1	11.8	10.3	42.86	132.4	122.9	180.8	158.8	22.01	8.212	
4,600.0	4,600.0	4,495.5	4,491.9	12.1	10.5	42.65	136.0	125.3	185.1	162.6	22.51	8.224	
4,700.0	4,700.0	4,495.4	4,491.7	12.3	10.7	42.45	139.7	127.8	189.5	166.5	23.01	8.236	
4,800.0	4,800.0	4,495.3	4,491.5	12.6	11.0	42.26	143.3	130.2	193.9	170.4	23.51	8.247	
4,900.0	4,900.0	4,495.2	4,491.4	12.9	11.2	42.07	147.0	132.7	198.2	174.2	24.01	8.257	
5,000.0	5,000.0	4,495.1	4,491.2	13.1	11.5	41.90	150.7	135.2	202.6	178.1	24.50	8.267	

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 Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,100.0	5,100.0	5,095.0	5,091.0	13.4	11.7	41.73	154.3	137.6	206.9	181.9	25.00	8.277	
5,200.0	5,200.0	5,194.9	5,190.8	13.7	11.9	41.56	158.0	140.1	211.3	185.8	25.50	8.287	
5,300.0	5,300.0	5,294.8	5,290.6	13.9	12.2	41.41	161.6	142.5	215.7	189.7	26.00	8.296	
5,400.0	5,400.0	5,394.7	5,390.4	14.2	12.4	41.26	165.3	145.0	220.1	193.6	26.50	8.305	
5,500.0	5,500.0	5,494.6	5,490.2	14.5	12.6	41.12	168.9	147.4	224.4	197.4	26.99	8.314	
5,600.0	5,600.0	5,594.5	5,590.0	14.7	12.9	94.46	172.6	149.9	228.8	201.7	27.20	8.415	
5,700.0	5,699.8	5,694.3	5,689.7	14.9	13.1	95.46	176.2	152.3	233.7	206.0	27.63	8.458	
5,800.0	5,799.3	5,793.6	5,788.9	15.1	13.3	97.62	179.9	154.8	239.2	211.2	28.06	8.527	
5,900.0	5,898.0	5,892.3	5,887.5	15.3	13.6	100.81	183.5	157.2	246.1	217.7	28.48	8.643	
6,000.0	5,995.8	5,990.1	5,985.2	15.6	13.8	104.82	187.0	159.6	255.2	226.3	28.88	8.834	
6,100.0	6,092.4	6,086.6	6,081.6	15.8	14.0	109.43	190.6	162.0	267.3	238.0	29.25	9.137	
6,200.0	6,187.5	6,181.7	6,176.6	16.0	14.3	114.35	194.0	164.3	283.4	253.8	29.56	9.587	
6,300.0	6,280.9	6,275.0	6,269.8	16.2	14.5	119.32	197.5	166.6	304.4	274.6	29.79	10.218	
6,400.0	6,372.2	6,366.4	6,361.1	16.5	14.7	124.11	200.8	168.9	330.8	300.9	29.92	11.058	
6,500.0	6,461.3	6,455.5	6,450.1	16.7	14.9	128.54	204.1	171.1	363.1	333.1	29.94	12.127	
6,600.0	6,548.1	6,542.2	6,536.8	17.0	15.1	132.84	207.2	173.2	401.0	371.0	29.95	13.386	
6,700.0	6,634.3	6,628.5	6,623.0	17.2	15.3	137.03	210.4	175.3	442.0	411.8	30.14	14.661	
6,800.0	6,721.8	6,715.8	6,710.2	17.5	15.5	160.22	213.6	177.5	485.3	455.3	30.04	16.158	
6,900.0	6,812.0	6,804.9	6,799.2	17.7	15.7	-166.60	216.8	179.7	530.2	499.8	30.41	17.435	
7,000.0	6,900.3	6,891.7	6,885.9	17.8	15.9	-140.01	220.0	181.8	574.5	543.4	31.11	18.468	
7,100.0	6,982.4	6,982.6	6,976.4	17.9	16.1	-123.07	212.7	184.0	617.5	585.7	31.77	19.435	
7,200.0	7,054.0	7,083.8	7,072.9	17.9	16.1	-112.80	183.0	186.3	657.3	625.0	32.27	20.368	
7,300.0	7,111.4	7,200.2	7,172.1	17.9	16.2	-106.84	122.9	188.7	691.7	659.2	32.54	21.257	
7,400.0	7,151.6	7,336.2	7,263.3	17.9	16.2	-103.79	22.8	190.7	718.0	685.3	32.70	21.962	
7,500.0	7,172.7	7,492.2	7,325.0	17.9	16.6	-102.68	-119.6	192.0	733.3	700.3	33.05	22.185	
7,600.0	7,175.2	7,632.5	7,336.8	18.0	17.3	-102.68	-259.0	192.1	736.2	702.5	33.73	21.824	
7,700.0	7,173.9	7,732.5	7,337.0	18.1	18.0	-102.79	-359.0	191.9	736.6	702.1	34.48	21.361	
7,800.0	7,172.6	7,832.5	7,337.2	18.2	18.9	-102.91	-459.0	191.8	736.9	701.5	35.43	20.798	
7,900.0	7,171.4	7,932.5	7,337.5	18.3	20.0	-103.02	-559.0	191.6	737.2	700.7	36.57	20.159	
8,000.0	7,170.1	8,032.5	7,337.7	18.5	21.1	-103.13	-659.0	191.5	737.6	699.7	37.88	19.472	
8,100.0	7,168.8	8,132.5	7,337.9	18.7	22.4	-103.25	-759.0	191.3	737.9	698.6	39.33	18.760	
8,200.0	7,167.5	8,232.5	7,338.2	18.9	23.7	-103.36	-859.0	191.1	738.3	697.4	40.92	18.043	
8,300.0	7,166.2	8,332.5	7,338.4	19.2	25.2	-103.48	-959.0	191.0	738.6	696.0	42.61	17.334	
8,400.0	7,165.0	8,432.5	7,338.6	19.5	26.7	-103.59	-1,058.9	190.8	739.0	694.6	44.40	16.642	
8,500.0	7,163.7	8,532.4	7,338.8	19.9	28.2	-103.70	-1,158.9	190.7	739.3	693.1	46.28	15.974	
8,600.0	7,162.4	8,632.4	7,339.1	20.2	29.8	-103.82	-1,258.9	190.5	739.7	691.5	48.24	15.335	
8,700.0	7,161.1	8,732.4	7,339.3	20.7	31.4	-103.93	-1,358.9	190.4	740.1	689.8	50.26	14.725	
8,800.0	7,159.8	8,832.4	7,339.5	21.1	33.1	-104.04	-1,458.9	190.2	740.4	688.1	52.34	14.147	
8,900.0	7,158.6	8,932.4	7,339.7	21.6	34.8	-104.16	-1,558.9	190.0	740.8	686.3	54.47	13.600	
9,000.0	7,157.3	9,032.4	7,340.0	22.1	36.5	-104.27	-1,658.9	189.9	741.2	684.5	56.65	13.083	
9,100.0	7,156.0	9,132.4	7,340.2	22.7	38.2	-104.38	-1,758.9	189.7	741.5	682.7	58.87	12.596	
9,200.0	7,154.7	9,232.4	7,340.4	23.2	39.9	-104.49	-1,858.8	189.6	741.9	680.8	61.13	12.136	
9,300.0	7,153.4	9,332.4	7,340.6	23.8	41.7	-104.61	-1,958.8	189.4	742.3	678.9	63.42	11.704	
9,400.0	7,152.2	9,432.3	7,340.9	24.4	43.5	-104.72	-2,058.8	189.3	742.7	676.9	65.75	11.296	
9,500.0	7,150.9	9,532.3	7,341.1	25.0	45.3	-104.83	-2,158.8	189.1	743.1	675.0	68.09	10.912	
9,600.0	7,149.6	9,632.3	7,341.3	25.7	47.1	-104.94	-2,258.8	188.9	743.4	673.0	70.47	10.550	
9,700.0	7,148.3	9,732.3	7,341.6	26.3	48.9	-105.06	-2,358.8	188.8	743.8	671.0	72.86	10.209	
9,800.0	7,147.0	9,832.3	7,341.8	27.0	50.7	-105.17	-2,458.8	188.6	744.2	669.0	75.28	9.887	
9,900.0	7,145.8	9,932.3	7,342.0	27.7	52.5	-105.28	-2,558.8	188.5	744.6	666.9	77.71	9.582	
10,000.0	7,144.5	10,032.3	7,342.2	28.4	54.3	-105.39	-2,658.8	188.3	745.0	664.9	80.16	9.295	
10,100.0	7,143.2	10,132.3	7,342.5	29.1	56.2	-105.50	-2,758.7	188.2	745.4	662.8	82.62	9.023	
10,200.0	7,141.9	10,232.2	7,342.7	29.9	58.0	-105.61	-2,858.7	188.0	745.8	660.7	85.09	8.765	

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 Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Offset Design Tailholt FD Horizontal Pad Sec.11-T6N-R67W - Tailholt FD 11-378HC - Wellbore #1 - Plan #3 (10-14-13)												Offset Site Error:	0.0 ft
Survey Program: 0-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
10,300.0	7,140.6	10,332.2	7,342.9	30.6	59.9	-105.73	-2,958.7	187.8	746.2	658.7	87.58	8.521	
10,400.0	7,139.4	10,432.2	7,343.1	31.3	61.7	-105.84	-3,058.7	187.7	746.7	656.6	90.08	8.289	
10,500.0	7,138.1	10,532.2	7,343.4	32.1	63.6	-105.95	-3,158.7	187.5	747.1	654.5	92.58	8.069	
10,600.0	7,136.8	10,632.2	7,343.6	32.9	65.4	-106.06	-3,258.7	187.4	747.5	652.4	95.10	7.860	
10,700.0	7,135.5	10,732.2	7,343.8	33.6	67.3	-106.17	-3,358.7	187.2	747.9	650.3	97.62	7.661	
10,800.0	7,134.2	10,832.2	7,344.0	34.4	69.2	-106.28	-3,458.7	187.1	748.3	648.2	100.15	7.472	
10,900.0	7,133.0	10,932.2	7,344.3	35.2	71.0	-106.39	-3,558.6	186.9	748.8	646.1	102.69	7.291	
11,000.0	7,131.7	11,032.2	7,344.5	36.0	72.9	-106.50	-3,658.6	186.7	749.2	643.9	105.23	7.119	
11,100.0	7,130.4	11,132.1	7,344.7	36.8	74.8	-106.61	-3,758.6	186.6	749.6	641.8	107.78	6.955	
11,200.0	7,129.1	11,232.1	7,345.0	37.6	76.7	-106.72	-3,858.6	186.4	750.0	639.7	110.33	6.798	
11,300.0	7,127.8	11,332.1	7,345.2	38.4	78.5	-106.83	-3,958.6	186.3	750.5	637.6	112.88	6.648	
11,400.0	7,126.6	11,432.1	7,345.4	39.2	80.4	-106.94	-4,058.6	186.1	750.9	635.5	115.44	6.505	
11,500.0	7,125.3	11,532.1	7,345.6	40.1	82.3	-107.05	-4,158.6	186.0	751.4	633.4	118.00	6.367	
11,600.0	7,124.0	11,632.1	7,345.9	40.9	84.2	-107.16	-4,258.6	185.8	751.8	631.2	120.57	6.236	
11,700.0	7,122.7	11,732.1	7,346.1	41.7	86.1	-107.27	-4,358.6	185.7	752.3	629.1	123.14	6.109	
11,800.0	7,121.4	11,832.1	7,346.3	42.5	88.0	-107.38	-4,458.5	185.5	752.7	627.0	125.70	5.988	
11,900.0	7,120.2	11,932.1	7,346.5	43.4	89.9	-107.49	-4,558.5	185.3	753.2	624.9	128.27	5.871	
12,000.0	7,118.9	12,031.5	7,346.7	44.2	91.7	-107.59	-4,658.0	185.2	753.6	622.8	130.84	5.760	
12,014.5	7,118.7	12,041.9	7,346.7	44.3	91.9	-107.60	-4,668.4	185.2	753.7	622.6	131.14	5.747 SF	

Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS													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	90.01	0.0	20.0	20.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.01	0.0	20.0	20.0	19.8	0.27	75.425		
200.0	200.0	200.0	200.0	0.4	0.4	90.01	0.0	20.0	20.0	19.2	0.80	25.142		
300.0	300.0	300.0	300.0	0.7	0.7	90.01	0.0	20.0	20.0	18.7	1.33	15.085		
400.0	400.0	400.0	400.0	0.9	0.9	90.01	0.0	20.0	20.0	18.2	1.86	10.775		
500.0	500.0	500.0	500.0	1.2	1.2	90.01	0.0	20.0	20.0	17.6	2.39	8.381		
600.0	600.0	600.0	600.0	1.5	1.5	90.01	0.0	20.0	20.0	17.1	2.92	6.857		
700.0	700.0	700.0	700.0	1.7	1.7	90.01	0.0	20.0	20.0	16.6	3.45	5.802		
800.0	800.0	800.0	800.0	2.0	2.0	90.01	0.0	20.0	20.0	16.0	3.98	5.028		
900.0	900.0	900.0	900.0	2.3	2.3	90.01	0.0	20.0	20.0	15.5	4.51	4.437		
1,000.0	1,000.0	1,000.0	1,000.0	2.5	2.5	90.01	0.0	20.0	20.0	15.0	5.04	3.970		
1,100.0	1,100.0	1,100.0	1,100.0	2.8	2.8	90.01	0.0	20.0	20.0	14.4	5.57	3.592		
1,200.0	1,200.0	1,200.0	1,200.0	3.1	3.1	90.01	0.0	20.0	20.0	13.9	6.11	3.279		
1,300.0	1,300.0	1,300.0	1,300.0	3.3	3.3	90.01	0.0	20.0	20.0	13.4	6.64	3.017		
1,400.0	1,400.0	1,400.0	1,400.0	3.6	3.6	90.01	0.0	20.0	20.0	12.9	7.17	2.794		
1,500.0	1,500.0	1,500.0	1,500.0	3.8	3.8	90.01	0.0	20.0	20.0	12.3	7.70	2.601		
1,600.0	1,600.0	1,600.0	1,600.0	4.1	4.1	90.01	0.0	20.0	20.0	11.8	8.23	2.433		
1,700.0	1,700.0	1,700.0	1,700.0	4.4	4.4	90.01	0.0	20.0	20.0	11.3	8.76	2.286		
1,800.0	1,800.0	1,800.0	1,800.0	4.6	4.6	90.01	0.0	20.0	20.0	10.7	9.29	2.155		
1,900.0	1,900.0	1,900.0	1,900.0	4.9	4.9	90.01	0.0	20.0	20.0	10.2	9.82	2.039		
2,000.0	2,000.0	2,000.0	2,000.0	5.2	5.2	90.01	0.0	20.0	20.0	9.7	10.35	1.934		
2,100.0	2,100.0	2,100.0	2,100.0	5.4	5.4	90.01	0.0	20.0	20.0	9.1	10.88	1.840		
2,200.0	2,200.0	2,200.0	2,200.0	5.7	5.7	90.01	0.0	20.0	20.0	8.6	11.41	1.754		
2,300.0	2,300.0	2,300.0	2,300.0	6.0	6.0	90.01	0.0	20.0	20.0	8.1	11.95	1.676		
2,400.0	2,400.0	2,400.0	2,400.0	6.2	6.2	90.01	0.0	20.0	20.0	7.5	12.48	1.605		
2,500.0	2,500.0	2,500.0	2,500.0	6.5	6.5	90.01	0.0	20.0	20.0	7.0	13.01	1.539		
2,600.0	2,600.0	2,600.0	2,600.0	6.8	6.8	90.01	0.0	20.0	20.0	6.5	13.54	1.479 Level 3		
2,700.0	2,700.0	2,700.0	2,700.0	7.0	7.0	90.01	0.0	20.0	20.0	6.0	14.07	1.423 Level 3		
2,800.0	2,800.0	2,800.0	2,800.0	7.3	7.3	90.01	0.0	20.0	20.0	5.4	14.60	1.371 Level 3		
2,900.0	2,900.0	2,900.0	2,900.0	7.6	7.6	90.01	0.0	20.0	20.0	4.9	15.13	1.323 Level 3		
3,000.0	3,000.0	3,000.0	3,000.0	7.8	7.8	90.01	0.0	20.0	20.0	4.4	15.66	1.278 Level 3		
3,100.0	3,100.0	3,100.0	3,100.0	8.1	8.1	90.01	0.0	20.0	20.0	3.8	16.19	1.236 Level 2		
3,200.0	3,200.0	3,200.0	3,200.0	8.4	8.4	90.01	0.0	20.0	20.0	3.3	16.72	1.197 Level 2		
3,300.0	3,300.0	3,300.0	3,300.0	8.6	8.6	90.01	0.0	20.0	20.0	2.8	17.25	1.160 Level 2		
3,400.0	3,400.0	3,400.0	3,400.0	8.9	8.9	90.01	0.0	20.0	20.0	2.2	17.78	1.126 Level 2		
3,500.0	3,500.0	3,500.0	3,500.0	9.2	9.2	90.01	0.0	20.0	20.0	1.7	18.32	1.093 Level 2		
3,600.0	3,600.0	3,600.0	3,600.0	9.4	9.4	90.01	0.0	20.0	20.0	1.2	18.85	1.062 Level 2		
3,700.0	3,700.0	3,700.0	3,700.0	9.7	9.7	90.01	0.0	20.0	20.0	0.6	19.38	1.033 Level 2		
3,800.0	3,800.0	3,800.0	3,800.0	10.0	10.0	90.01	0.0	20.0	20.0	0.1	19.91	1.006 Level 2		
3,900.0	3,900.0	3,900.0	3,900.0	10.2	10.2	90.01	0.0	20.0	20.0	-0.4	20.44	0.980 Level 1		
4,000.0	4,000.0	4,000.0	4,000.0	10.5	10.5	90.01	0.0	20.0	20.0	-0.9	20.97	0.955 Level 1		
4,100.0	4,100.0	4,100.0	4,100.0	10.8	10.8	90.01	0.0	20.0	20.0	-1.5	21.50	0.931 Level 1		
4,200.0	4,200.0	4,200.0	4,200.0	11.0	11.0	90.01	0.0	20.0	20.0	-2.0	22.03	0.909 Level 1		
4,300.0	4,300.0	4,300.0	4,300.0	11.3	11.3	90.01	0.0	20.0	20.0	-2.5	22.56	0.887 Level 1		
4,400.0	4,400.0	4,400.0	4,400.0	11.5	11.5	90.01	0.0	20.0	20.0	-3.1	23.09	0.867 Level 1		
4,500.0	4,500.0	4,500.0	4,500.0	11.8	11.8	90.01	0.0	20.0	20.0	-3.6	23.62	0.847 Level 1		
4,600.0	4,600.0	4,600.0	4,600.0	12.1	12.1	90.01	0.0	20.0	20.0	-4.1	24.16	0.829 Level 1		
4,700.0	4,700.0	4,700.0	4,700.0	12.3	12.3	90.01	0.0	20.0	20.0	-4.7	24.69	0.811 Level 1		
4,800.0	4,800.0	4,800.0	4,800.0	12.6	12.6	90.01	0.0	20.0	20.0	-5.2	25.22	0.794 Level 1		
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	90.01	0.0	20.0	20.0	-5.7	25.75	0.778 Level 1		
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	90.01	0.0	20.0	20.0	-6.3	26.28	0.762 Level 1		
5,100.0	5,100.0	5,100.0	5,100.0	13.4	13.4	90.01	0.0	20.0	20.0	-6.8	26.81	0.747 Level 1		

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 Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Offset Design		Tailholt FD Horizontal Pad Sec.11-T6N-R67W - Tailholt FD 11-379HN - Wellbore #1 - Plan #4 (10-22-13)										Offset Site Error:		0.0 ft
Survey Program: 0-NS-GYRO-MS												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	90.01	0.0	20.0	20.0	-7.3	27.34	0.732 Level 1	0.691 Level 1, ES, SF	
5,300.0	5,300.0	5,300.0	5,300.0	13.9	13.9	90.01	0.0	20.0	20.0	-7.9	27.87	0.718 Level 1		
5,400.0	5,400.0	5,400.0	5,400.0	14.2	14.2	90.01	0.0	20.0	20.0	-8.4	28.40	0.705 Level 1		
5,500.0	5,500.0	5,500.0	5,500.0	14.5	14.5	90.01	0.0	20.0	20.0	-8.9	28.93	0.692 Level 1, CC		
5,528.2	5,528.2	5,528.2	5,528.2	14.5	14.5	143.57	0.0	20.0	20.1	-9.0	29.08	0.691 Level 1, ES, SF		
5,600.0	5,600.0	5,600.0	5,600.0	14.7	14.7	144.47	0.0	20.0	20.6	-8.9	29.44	0.698 Level 1		
5,700.0	5,699.8	5,699.8	5,699.8	14.9	15.0	151.40	0.0	20.0	25.0	-4.9	29.85	0.837 Level 1	1.145 Level 2	
5,800.0	5,799.3	5,799.3	5,799.3	15.1	15.3	159.62	0.0	20.0	34.5	4.4	30.17	1.145 Level 2		
5,900.0	5,898.0	5,898.0	5,898.0	15.3	15.5	165.82	0.0	20.0	49.5	19.1	30.40	1.629		
6,000.0	5,995.8	5,995.8	5,995.8	15.6	15.8	169.89	0.0	20.0	69.9	39.3	30.54	2.288		
6,100.0	6,092.4	6,100.0	6,099.7	15.8	16.1	169.17	6.9	19.0	91.6	61.0	30.63	2.993		
6,200.0	6,187.5	6,205.4	6,202.6	16.0	16.3	162.58	28.9	15.7	110.9	80.2	30.73	3.609	6.763	
6,300.0	6,280.9	6,308.9	6,299.4	16.2	16.6	152.80	64.9	10.4	130.3	99.3	30.96	4.209		
6,400.0	6,372.2	6,405.4	6,385.3	16.5	16.9	142.89	108.4	4.0	153.9	122.5	31.38	4.905		
6,500.0	6,461.3	6,499.2	6,468.4	16.7	17.1	136.29	151.5	-2.4	184.0	152.2	31.81	5.785		
6,600.0	6,548.1	6,595.1	6,554.1	17.0	17.4	132.89	193.9	-9.0	218.4	186.1	32.29	6.763		
6,700.0	6,634.3	6,695.2	6,650.1	17.2	17.7	135.31	220.7	-16.4	251.5	218.9	32.60	7.713	11.456	
6,800.0	6,721.8	6,790.0	6,744.2	17.5	17.8	159.41	225.5	-23.7	284.8	252.6	32.21	8.843		
6,900.0	6,812.0	6,880.7	6,833.3	17.7	17.8	-165.43	211.2	-30.7	320.6	288.3	32.32	9.921		
7,000.0	6,900.3	6,969.0	6,915.5	17.8	17.8	-135.74	179.9	-37.2	356.4	323.3	33.12	10.762		
7,100.0	6,982.4	7,056.3	6,989.1	17.9	17.7	-115.84	133.4	-43.1	389.8	355.8	34.03	11.456		
7,200.0	7,054.0	7,143.5	7,052.0	17.9	17.6	-103.21	73.5	-48.2	418.9	384.3	34.63	12.097	13.581	
7,300.0	7,111.4	7,231.2	7,102.1	17.9	17.6	-95.26	1.9	-52.3	442.3	407.5	34.84	12.697		
7,400.0	7,151.6	7,319.5	7,137.4	17.9	17.5	-90.52	-78.8	-55.3	458.8	424.1	34.76	13.198		
7,500.0	7,172.7	7,408.4	7,156.0	17.9	17.5	-88.25	-165.6	-56.9	467.7	433.1	34.62	13.510		
7,600.0	7,175.2	7,501.8	7,158.3	18.0	17.5	-87.94	-258.9	-57.4	469.1	434.6	34.54	13.581		
7,700.0	7,173.9	7,601.8	7,157.4	18.1	17.5	-87.98	-358.9	-57.5	469.1	434.5	34.58	13.565	13.137	
7,800.0	7,172.6	7,701.8	7,156.4	18.2	17.6	-88.02	-458.9	-57.7	469.1	434.4	34.72	13.511		
7,900.0	7,171.4	7,801.8	7,155.5	18.3	17.7	-88.06	-558.9	-57.9	469.0	434.1	34.95	13.420		
8,000.0	7,170.1	7,901.8	7,154.5	18.5	17.8	-88.10	-658.9	-58.1	469.0	433.7	35.28	13.294		
8,100.0	7,168.8	8,001.8	7,153.6	18.7	18.0	-88.14	-758.9	-58.2	469.0	433.3	35.70	13.137		
8,200.0	7,167.5	8,101.8	7,152.7	18.9	18.3	-88.18	-858.9	-58.4	469.0	432.8	36.21	12.952	12.006	
8,300.0	7,166.2	8,201.8	7,151.7	19.2	18.6	-88.23	-958.9	-58.6	468.9	432.1	36.80	12.743		
8,400.0	7,165.0	8,301.8	7,150.8	19.5	18.9	-88.27	-1,058.9	-58.8	468.9	431.4	37.48	12.512		
8,500.0	7,163.7	8,401.8	7,149.8	19.9	19.3	-88.31	-1,158.9	-58.9	468.9	430.7	38.23	12.266		
8,600.0	7,162.4	8,501.8	7,148.9	20.2	19.7	-88.35	-1,258.9	-59.1	468.9	429.8	39.05	12.006		
8,700.0	7,161.1	8,601.8	7,147.9	20.7	20.1	-88.39	-1,358.9	-59.3	468.8	428.9	39.94	11.738	10.628	
8,800.0	7,159.8	8,701.8	7,147.0	21.1	20.6	-88.43	-1,458.9	-59.5	468.8	427.9	40.90	11.463		
8,900.0	7,158.6	8,801.8	7,146.1	21.6	21.1	-88.47	-1,558.9	-59.6	468.8	426.9	41.91	11.185		
9,000.0	7,157.3	8,901.8	7,145.1	22.1	21.6	-88.51	-1,658.9	-59.8	468.8	425.8	42.98	10.906		
9,100.0	7,156.0	9,001.8	7,144.2	22.7	22.2	-88.55	-1,758.9	-60.0	468.7	424.6	44.10	10.628		
9,200.0	7,154.7	9,101.8	7,143.2	23.2	22.7	-88.60	-1,858.9	-60.2	468.7	423.4	45.27	10.354	9.308	
9,300.0	7,153.4	9,201.8	7,142.3	23.8	23.3	-88.64	-1,958.9	-60.3	468.7	422.2	46.48	10.084		
9,400.0	7,152.2	9,301.8	7,141.3	24.4	24.0	-88.68	-2,058.9	-60.5	468.7	420.9	47.73	9.819		
9,500.0	7,150.9	9,401.8	7,140.4	25.0	24.6	-88.72	-2,158.9	-60.7	468.6	419.6	49.02	9.560		
9,600.0	7,149.6	9,501.8	7,139.5	25.7	25.3	-88.76	-2,258.9	-60.9	468.6	418.3	50.34	9.308		
9,700.0	7,148.3	9,601.8	7,138.5	26.3	25.9	-88.80	-2,358.9	-61.0	468.6	416.9	51.70	9.064	8.164	
9,800.0	7,147.0	9,701.8	7,137.6	27.0	26.6	-88.84	-2,458.9	-61.2	468.6	415.5	53.08	8.827		
9,900.0	7,145.8	9,801.8	7,136.6	27.7	27.3	-88.88	-2,558.9	-61.4	468.5	414.0	54.49	8.598		
10,000.0	7,144.5	9,901.8	7,135.7	28.4	28.0	-88.92	-2,658.9	-61.6	468.5	412.6	55.93	8.377		
10,100.0	7,143.2	10,001.8	7,134.7	29.1	28.8	-88.96	-2,758.9	-61.7	468.5	411.1	57.39	8.164		
10,200.0	7,141.9	10,101.8	7,133.8	29.9	29.5	-89.01	-2,858.9	-61.9	468.5	409.6	58.87	7.958		

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 Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Offset Design Tailholt FD Horizontal Pad Sec.11-T6N-R67W - Tailholt FD 11-379HN - Wellbore #1 - Plan #4 (10-22-13)												Offset Site Error:	0.0 ft
Survey Program: 0-NS-GYRO-MS												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
10,300.0	7,140.6	10,201.8	7,132.8	30.6	30.2	-89.05	-2,958.8	-62.1	468.4	408.1	60.37	7.760	
10,400.0	7,139.4	10,301.8	7,131.9	31.3	31.0	-89.09	-3,058.8	-62.3	468.4	406.5	61.89	7.569	
10,500.0	7,138.1	10,401.8	7,131.0	32.1	31.8	-89.13	-3,158.8	-62.4	468.4	405.0	63.42	7.385	
10,600.0	7,136.8	10,501.8	7,130.0	32.9	32.5	-89.17	-3,258.8	-62.6	468.4	403.4	64.97	7.209	
10,700.0	7,135.5	10,601.8	7,129.1	33.6	33.3	-89.21	-3,358.8	-62.8	468.3	401.8	66.54	7.039	
10,800.0	7,134.2	10,701.8	7,128.1	34.4	34.1	-89.25	-3,458.8	-63.0	468.3	400.2	68.12	6.875	
10,900.0	7,133.0	10,801.8	7,127.2	35.2	34.9	-89.29	-3,558.8	-63.1	468.3	398.6	69.71	6.718	
11,000.0	7,131.7	10,901.8	7,126.2	36.0	35.7	-89.33	-3,658.8	-63.3	468.3	397.0	71.32	6.566	
11,100.0	7,130.4	11,001.8	7,125.3	36.8	36.5	-89.38	-3,758.8	-63.5	468.3	395.3	72.93	6.420	
11,200.0	7,129.1	11,101.8	7,124.4	37.6	37.3	-89.42	-3,858.8	-63.7	468.2	393.7	74.56	6.280	
11,300.0	7,127.8	11,201.8	7,123.4	38.4	38.1	-89.46	-3,958.7	-63.8	468.2	392.0	76.20	6.145	
11,400.0	7,126.6	11,301.8	7,122.5	39.2	39.0	-89.50	-4,058.7	-64.0	468.2	390.4	77.84	6.015	
11,500.0	7,125.3	11,401.8	7,121.5	40.1	39.8	-89.54	-4,158.7	-64.2	468.2	388.7	79.50	5.889	
11,600.0	7,124.0	11,501.8	7,120.6	40.9	40.6	-89.58	-4,258.7	-64.4	468.2	387.0	81.16	5.768	
11,700.0	7,122.7	11,601.8	7,119.6	41.7	41.4	-89.62	-4,358.7	-64.5	468.1	385.3	82.83	5.652	
11,800.0	7,121.4	11,701.8	7,118.7	42.5	42.3	-89.66	-4,458.7	-64.7	468.1	383.6	84.51	5.540	
11,900.0	7,120.2	11,801.8	7,117.8	43.4	43.1	-89.71	-4,558.7	-64.9	468.1	381.9	86.19	5.431	
12,000.0	7,118.9	11,901.8	7,116.8	44.2	44.0	-89.75	-4,658.7	-65.1	468.1	380.2	87.88	5.326	
12,011.9	7,118.7	11,913.7	7,116.7	44.3	44.1	-89.75	-4,670.5	-65.1	468.1	380.0	88.08	5.314	
12,014.5	7,118.7	11,913.7	7,116.7	44.3	44.1	-89.75	-4,670.5	-65.1	468.1	380.0	88.10	5.313	

Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4890.7ft (RKB - 16.5')

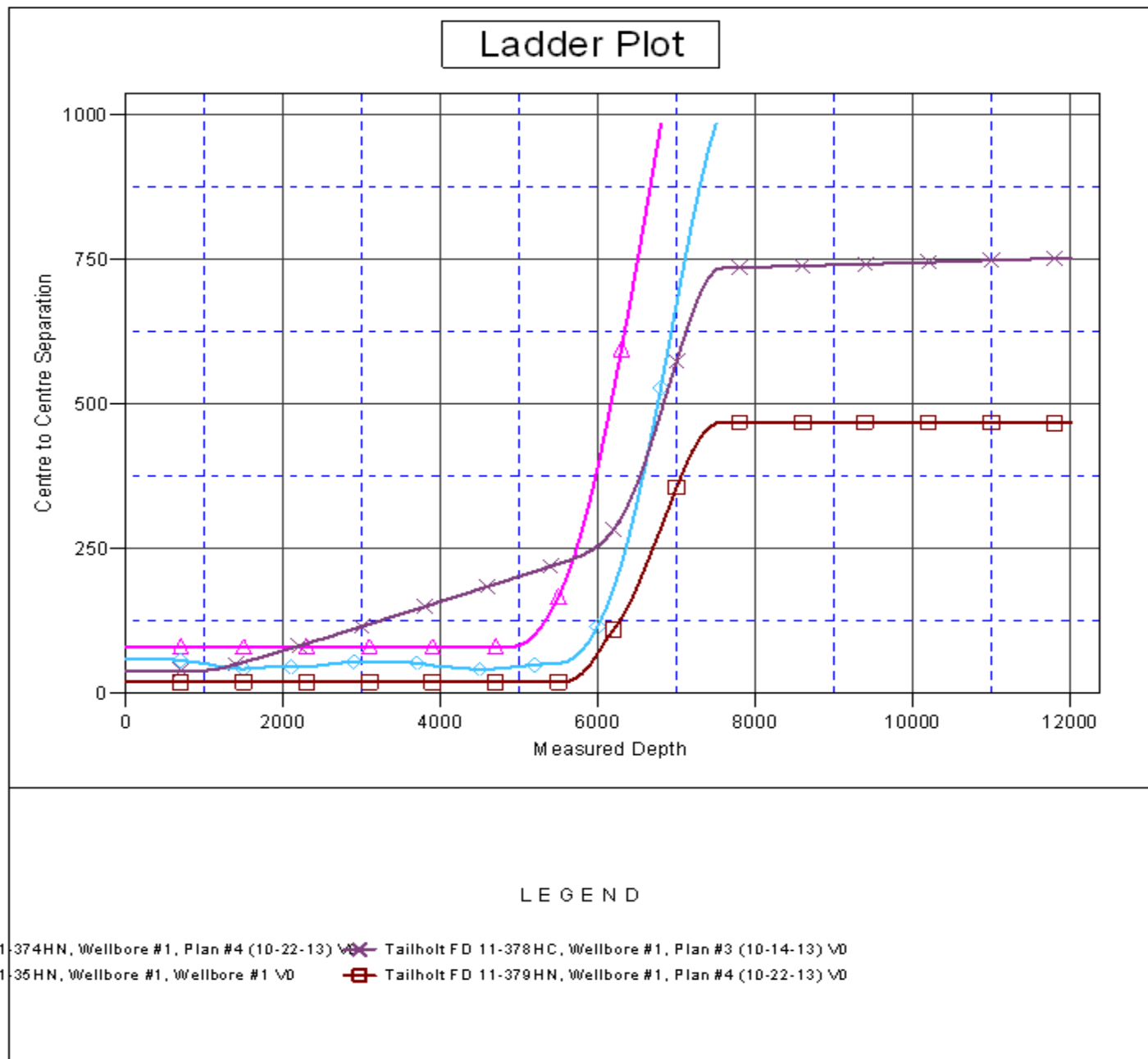
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Tailholt FD 11-380HN

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.41°



Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-380HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-380HN	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 #2 (10-22-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4890.7ft (RKB - 16.5')

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Tailholt FD 11-380HN

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.41°

