

Great Western

Well Name: **Tailholt FD 11-372HN**

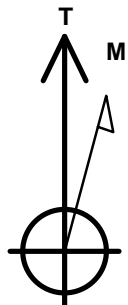
Surface Location: Tailholt FD Horizontal Pad Sec.11-T6N-R67W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4874.2

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1428644.92	3175797.56	40.508311	-104.867778	
RKB - 16.5' WELL @ 4890.7ft (RKB - 16.5')						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 242'FNL & 647'FWL	0.7	0.0	0.0	Point
BHL 470'FSL & 2159'FWL	7109.7	-4659.2	1504.4	Point
Landing Pt. 460'FNL & 2159'FWL	7134.7	-219.6	1511.5	Point



Azimuths to True North
Magnetic North: 8.68°

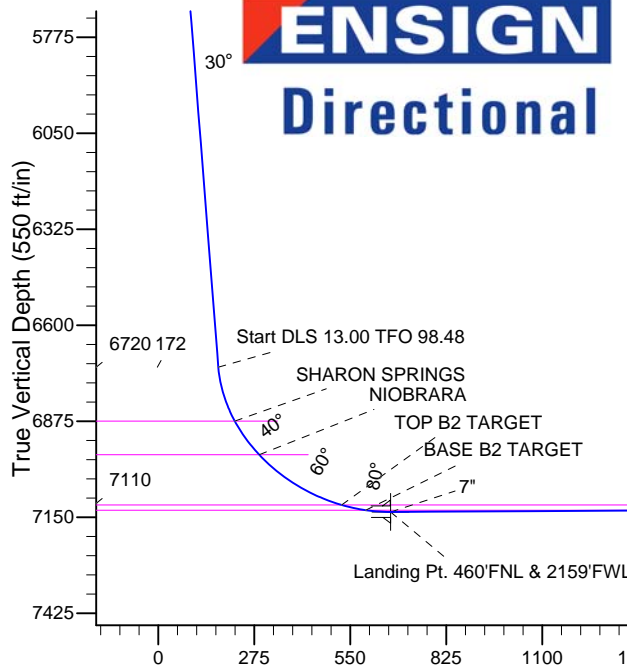
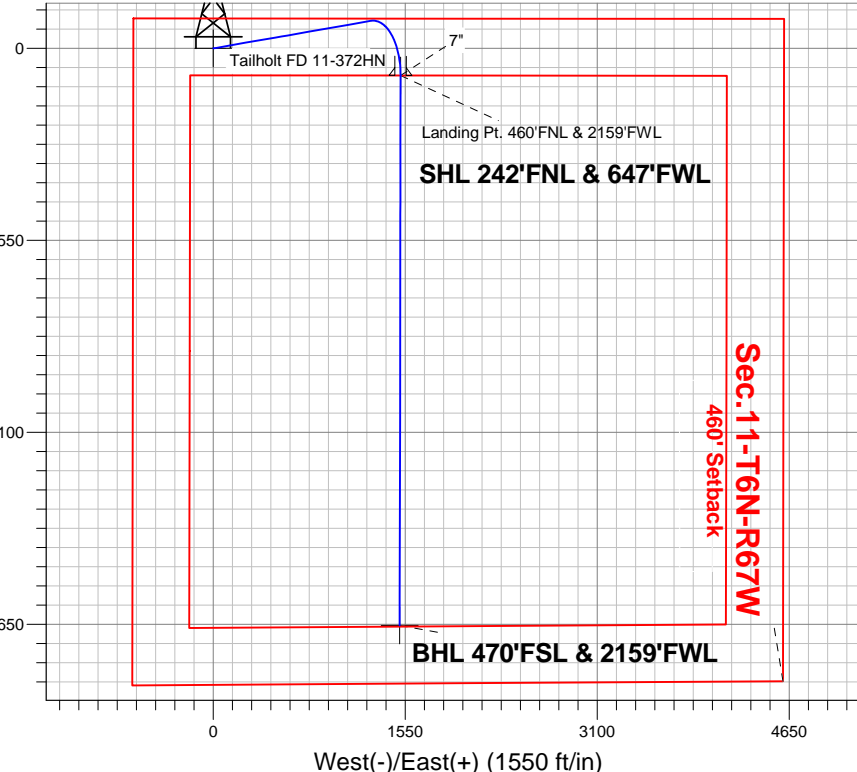
Magnetic Field
Strength: 52982.9snT
Dip Angle: 67.06°
Date: 4/17/2013
Model: IGRF2010

Tailholt FD Horizontal Pad Sec.11-T6N-R67W
Tailholt FD 11-372HN
Plan #5 (10-22-13)
15:32, October 22 2013

ANNOTATIONS

TVD	MD	Annotation
4000.0	4000.0	KOP - Start Build 3.00
6720.1	7046.1	Start DLS 13.00 TFO 98.48
7109.7	12219.0	TD at 12219.0

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	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	5012.6	30.38	80.10	4965.8	45.1	258.3	3.00	80.10	35.0	
4	7046.1	30.38	80.10	6720.2	221.9	1271.3	0.00	0.00	172.2	
5	7779.3	90.32	180.09	7134.7	-219.6	1511.5	13.00	98.48	665.6	Landing Pt. 460'FNL & 2159'FWL
6	7779.6	90.32	180.09	7134.7	-219.9	1511.5	1.00	31.49	665.9	
7	12219.0	90.32	180.09	7109.7	-4659.2	1504.4	0.00	0.00	4896.0	BHL 470'FSL & 2159'FWL

BHL 470'FSL & 2159'FWL

TD at 12219.0

Vertical Section at 162.43° (550 ft/in)



Great Western

SEC.11-T6N-R67W

Tailholt FD Horizontal Pad Sec.11-T6N-R67W

Tailholt FD 11-372HN

Wellbore #1

Plan: Plan #5 (10-22-13)

Standard Planning Report

22 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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,012.6	30.38	80.10	4,965.8	45.1	258.3	3.00	3.00	0.00	80.10	
7,046.1	30.38	80.10	6,720.2	221.9	1,271.3	0.00	0.00	0.00	0.00	
7,779.3	90.32	180.09	7,134.7	-219.6	1,511.5	13.00	8.18	13.64	98.48	Landing Pt. 460'FN
7,779.6	90.32	180.09	7,134.7	-219.9	1,511.5	1.00	0.85	0.52	31.49	
12,219.0	90.32	180.09	7,109.7	-4,659.2	1,504.4	0.00	0.00	0.00	0.00	BHL 470'FSL & 215'FSL

Database:	Landmark	Local Co-ordinate Reference:	Well Tailholt FD 11-372HN
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 11-372HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 (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
0.7	0.00	0.00	0.7	0.0	0.0	0.0	0.00	0.00	0.00
SHL 242'FNL & 647'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
1,049.7	0.00	0.00	1,049.7	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
3,646.7	0.00	0.00	3,646.7	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
KOP - Start Build 3.00									
4,100.0	3.00	80.10	4,100.0	0.5	2.6	0.3	3.00	3.00	0.00
4,184.0	5.52	80.10	4,183.7	1.5	8.7	1.2	3.00	3.00	0.00
SUSSEX									
4,200.0	6.00	80.10	4,199.6	1.8	10.3	1.4	3.00	3.00	0.00
4,300.0	9.00	80.10	4,298.8	4.0	23.2	3.1	3.00	3.00	0.00
4,400.0	12.00	80.10	4,397.1	7.2	41.1	5.6	3.00	3.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Tailholt FD 11-372HN
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 11-372HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 (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)
4,500.0	15.00	80.10	4,494.3	11.2	64.1	8.7	3.00	3.00	0.00
4,600.0	18.00	80.10	4,590.2	16.1	92.1	12.5	3.00	3.00	0.00
4,700.0	21.00	80.10	4,684.4	21.8	125.0	16.9	3.00	3.00	0.00
4,772.6	23.18	80.10	4,751.7	26.5	151.9	20.6	3.00	3.00	0.00
SHANNON									
4,800.0	24.00	80.10	4,776.8	28.4	162.7	22.0	3.00	3.00	0.00
4,900.0	27.00	80.10	4,867.1	35.8	205.1	27.8	3.00	3.00	0.00
5,000.0	30.00	80.10	4,954.9	44.0	252.1	34.1	3.00	3.00	0.00
5,012.6	30.38	80.10	4,965.8	45.1	258.3	35.0	3.00	3.00	0.00
5,100.0	30.38	80.10	5,041.2	52.7	301.8	40.9	0.00	0.00	0.00
5,200.0	30.38	80.10	5,127.5	61.4	351.7	47.6	0.00	0.00	0.00
5,300.0	30.38	80.10	5,213.8	70.1	401.5	54.4	0.00	0.00	0.00
5,400.0	30.38	80.10	5,300.0	78.8	451.3	61.1	0.00	0.00	0.00
5,500.0	30.38	80.10	5,386.3	87.5	501.1	67.9	0.00	0.00	0.00
5,600.0	30.38	80.10	5,472.6	96.2	550.9	74.6	0.00	0.00	0.00
5,700.0	30.38	80.10	5,558.8	104.9	600.7	81.4	0.00	0.00	0.00
5,800.0	30.38	80.10	5,645.1	113.6	650.6	88.1	0.00	0.00	0.00
5,900.0	30.38	80.10	5,731.4	122.3	700.4	94.9	0.00	0.00	0.00
6,000.0	30.38	80.10	5,817.7	131.0	750.2	101.6	0.00	0.00	0.00
6,100.0	30.38	80.10	5,903.9	139.6	800.0	108.4	0.00	0.00	0.00
6,200.0	30.38	80.10	5,990.2	148.3	849.8	115.1	0.00	0.00	0.00
6,300.0	30.38	80.10	6,076.5	157.0	899.6	121.8	0.00	0.00	0.00
6,400.0	30.38	80.10	6,162.7	165.7	949.5	128.6	0.00	0.00	0.00
6,500.0	30.38	80.10	6,249.0	174.4	999.3	135.3	0.00	0.00	0.00
6,600.0	30.38	80.10	6,335.3	183.1	1,049.1	142.1	0.00	0.00	0.00
6,700.0	30.38	80.10	6,421.6	191.8	1,098.9	148.8	0.00	0.00	0.00
6,800.0	30.38	80.10	6,507.8	200.5	1,148.7	155.6	0.00	0.00	0.00
6,900.0	30.38	80.10	6,594.1	209.2	1,198.5	162.3	0.00	0.00	0.00
7,000.0	30.38	80.10	6,680.4	217.9	1,248.3	169.1	0.00	0.00	0.00
7,046.1	30.38	80.10	6,720.1	221.9	1,271.3	172.2	0.00	0.00	0.00
Start DLS 13.00 TFO 98.48									
7,100.0	30.07	94.02	6,766.8	223.3	1,298.2	179.0	12.99	-0.56	25.83
7,200.0	33.26	118.18	6,852.2	208.6	1,347.6	208.0	13.00	3.19	24.17
7,227.1	34.84	123.82	6,874.7	200.7	1,360.6	219.4	13.00	5.82	20.77
SHARON SPRINGS									
7,300.0	40.17	136.73	6,932.6	172.0	1,394.1	256.9	13.00	7.31	17.71
7,351.6	44.66	144.13	6,970.7	145.1	1,416.2	289.1	13.00	8.70	14.35
NIOBRARA									
7,400.0	49.24	150.04	7,003.7	115.4	1,435.3	323.2	13.00	9.46	12.21
7,500.0	59.45	159.97	7,062.1	41.8	1,469.1	403.6	13.00	10.22	9.93
7,600.0	70.27	167.95	7,104.5	-45.0	1,493.8	493.8	13.00	10.82	7.98
7,633.1	73.94	170.33	7,114.7	-76.0	1,499.7	525.1	13.00	11.06	7.18
TOP B2 TARGET									
7,700.0	81.40	174.90	7,129.0	-140.7	1,508.1	589.4	13.00	11.16	6.82
7,705.0	81.96	175.23	7,129.7	-145.6	1,508.5	594.2	13.00	11.22	6.64
BASE B2 TARGET									
7,779.3	90.32	180.09	7,134.7	-219.6	1,511.5	665.6	13.00	11.24	6.54
7" - Landing Pt. 460'FNL & 2159'FWL									
7,779.6	90.32	180.09	7,134.7	-219.9	1,511.5	665.9	1.30	1.11	0.67
7,800.0	90.32	180.09	7,134.6	-240.3	1,511.5	685.3	0.00	0.00	0.00
7,900.0	90.32	180.09	7,134.0	-340.3	1,511.3	780.6	0.00	0.00	0.00
8,000.0	90.32	180.09	7,133.5	-440.3	1,511.1	875.9	0.00	0.00	0.00
8,100.0	90.32	180.09	7,132.9	-540.3	1,511.0	971.2	0.00	0.00	0.00

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Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	North Reference:	True
Well:	Tailholt FD 11-372HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 (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)
8,200.0	90.32	180.09	7,132.3	-640.3	1,510.8	1,066.5	0.00	0.00	0.00
8,300.0	90.32	180.09	7,131.8	-740.3	1,510.7	1,161.8	0.00	0.00	0.00
8,400.0	90.32	180.09	7,131.2	-840.3	1,510.5	1,257.1	0.00	0.00	0.00
8,500.0	90.32	180.09	7,130.6	-940.3	1,510.3	1,352.3	0.00	0.00	0.00
8,600.0	90.32	180.09	7,130.1	-1,040.3	1,510.2	1,447.6	0.00	0.00	0.00
8,700.0	90.32	180.09	7,129.5	-1,140.3	1,510.0	1,542.9	0.00	0.00	0.00
8,800.0	90.32	180.09	7,129.0	-1,240.3	1,509.9	1,638.2	0.00	0.00	0.00
8,900.0	90.32	180.09	7,128.4	-1,340.3	1,509.7	1,733.5	0.00	0.00	0.00
9,000.0	90.32	180.09	7,127.8	-1,440.3	1,509.5	1,828.8	0.00	0.00	0.00
9,100.0	90.32	180.09	7,127.3	-1,540.3	1,509.4	1,924.1	0.00	0.00	0.00
9,200.0	90.32	180.09	7,126.7	-1,640.3	1,509.2	2,019.3	0.00	0.00	0.00
9,300.0	90.32	180.09	7,126.1	-1,740.3	1,509.1	2,114.6	0.00	0.00	0.00
9,400.0	90.32	180.09	7,125.6	-1,840.3	1,508.9	2,209.9	0.00	0.00	0.00
9,500.0	90.32	180.09	7,125.0	-1,940.3	1,508.7	2,305.2	0.00	0.00	0.00
9,600.0	90.32	180.09	7,124.4	-2,040.3	1,508.6	2,400.5	0.00	0.00	0.00
9,700.0	90.32	180.09	7,123.9	-2,140.3	1,508.4	2,495.8	0.00	0.00	0.00
9,800.0	90.32	180.09	7,123.3	-2,240.3	1,508.3	2,591.1	0.00	0.00	0.00
9,900.0	90.32	180.09	7,122.8	-2,340.3	1,508.1	2,686.3	0.00	0.00	0.00
10,000.0	90.32	180.09	7,122.2	-2,440.3	1,507.9	2,781.6	0.00	0.00	0.00
10,100.0	90.32	180.09	7,121.6	-2,540.3	1,507.8	2,876.9	0.00	0.00	0.00
10,200.0	90.32	180.09	7,121.1	-2,640.3	1,507.6	2,972.2	0.00	0.00	0.00
10,300.0	90.32	180.09	7,120.5	-2,740.3	1,507.5	3,067.5	0.00	0.00	0.00
10,400.0	90.32	180.09	7,119.9	-2,840.3	1,507.3	3,162.8	0.00	0.00	0.00
10,500.0	90.32	180.09	7,119.4	-2,940.3	1,507.1	3,258.1	0.00	0.00	0.00
10,600.0	90.32	180.09	7,118.8	-3,040.3	1,507.0	3,353.3	0.00	0.00	0.00
10,700.0	90.32	180.09	7,118.3	-3,140.3	1,506.8	3,448.6	0.00	0.00	0.00
10,800.0	90.32	180.09	7,117.7	-3,240.3	1,506.7	3,543.9	0.00	0.00	0.00
10,900.0	90.32	180.09	7,117.1	-3,340.3	1,506.5	3,639.2	0.00	0.00	0.00
11,000.0	90.32	180.09	7,116.6	-3,440.3	1,506.3	3,734.5	0.00	0.00	0.00
11,100.0	90.32	180.09	7,116.0	-3,540.3	1,506.2	3,829.8	0.00	0.00	0.00
11,200.0	90.32	180.09	7,115.4	-3,640.3	1,506.0	3,925.1	0.00	0.00	0.00
11,300.0	90.32	180.09	7,114.9	-3,740.3	1,505.9	4,020.3	0.00	0.00	0.00
11,400.0	90.32	180.09	7,114.3	-3,840.3	1,505.7	4,115.6	0.00	0.00	0.00
11,500.0	90.32	180.09	7,113.7	-3,940.3	1,505.5	4,210.9	0.00	0.00	0.00
11,600.0	90.32	180.09	7,113.2	-4,040.2	1,505.4	4,306.2	0.00	0.00	0.00
11,700.0	90.32	180.09	7,112.6	-4,140.2	1,505.2	4,401.5	0.00	0.00	0.00
11,800.0	90.32	180.09	7,112.1	-4,240.2	1,505.1	4,496.8	0.00	0.00	0.00
11,900.0	90.32	180.09	7,111.5	-4,340.2	1,504.9	4,592.1	0.00	0.00	0.00
12,000.0	90.32	180.09	7,110.9	-4,440.2	1,504.7	4,687.3	0.00	0.00	0.00
12,100.0	90.32	180.09	7,110.4	-4,540.2	1,504.6	4,782.6	0.00	0.00	0.00
12,200.0	90.32	180.09	7,109.8	-4,640.2	1,504.4	4,877.9	0.00	0.00	0.00
12,219.0	90.32	180.09	7,109.7	-4,659.2	1,504.4	4,896.0	0.00	0.00	0.00
BHL 470'FSL & 2159'FWL									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,779.3	7,134.7	7"	7	7-1/2	

Database:	Landmark	Local Co-ordinate Reference:	Well Tailholt FD 11-372HN
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 11-372HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 (10-22-13)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,049.7	1,049.7	PIERRE		0.00		
3,646.7	3,646.7	PARKMAN		0.00		
4,184.0	4,183.7	SUSSEX		0.00		
4,772.6	4,751.7	SHANNON		0.00		
7,227.1	6,874.7	SHARON SPRINGS		0.00		
7,351.6	6,970.7	NIOBRARA		0.00		
7,633.1	7,114.7	TOP B2 TARGET		0.00		
7,705.0	7,129.7	BASE B2 TARGET		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
4,000.0	4,000.0	0.0	0.0	KOP - Start Build 3.00	
7,046.1	6,720.1	221.9	1,271.3	Start DLS 13.00 TFO 98.48	
12,219.0	7,109.7	-4,659.2	1,504.4	TD at 12219.0	



Great Western

SEC.11-T6N-R67W

Tailholt FD Horizontal Pad Sec.11-T6N-R67W

Tailholt FD 11-372HN

Wellbore #1

Plan #5 (10-22-13)

Anticollision Report

22 October, 2013

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 (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		
1,700.0	1,700.0	1,702.7	1,702.5	4.4	3.9	-95.55	-7.3	-75.4	75.8	67.5	8.28	9.156		
1,800.0	1,800.0	1,802.7	1,802.4	4.6	3.9	-95.25	-6.8	-74.5	74.8	66.2	8.56	8.741		
1,900.0	1,900.0	1,902.2	1,902.0	4.9	3.9	-94.63	-6.0	-74.0	74.3	65.4	8.85	8.391		
1,964.9	1,964.9	1,966.9	1,966.7	5.1	4.0	-94.15	-5.4	-74.0	74.2	65.1	9.07	8.181		
2,000.0	2,000.0	2,001.9	2,001.7	5.2	4.0	-93.84	-5.0	-74.1	74.2	65.0	9.20	8.072		
2,100.0	2,100.0	2,102.2	2,101.9	5.4	4.1	-92.92	-3.8	-74.3	74.4	64.8	9.57	7.771		
2,200.0	2,200.0	2,202.3	2,202.0	5.7	4.2	-92.24	-2.9	-74.0	74.1	64.1	9.92	7.465		
2,300.0	2,300.0	2,302.6	2,302.4	6.0	4.3	-91.68	-2.2	-73.6	73.6	63.4	10.28	7.166		
2,400.0	2,400.0	2,403.6	2,403.3	6.2	4.4	-91.12	-1.4	-72.3	72.3	61.7	10.63	6.800		
2,500.0	2,500.0	2,503.6	2,503.3	6.5	4.5	-90.58	-0.7	-70.1	70.1	59.1	10.99	6.379		
2,600.0	2,600.0	2,603.3	2,602.9	6.8	4.6	-90.02	0.0	-68.3	68.3	56.9	11.37	6.004		
2,700.0	2,700.0	2,703.1	2,702.8	7.0	4.7	-89.48	0.6	-66.7	66.7	54.9	11.76	5.670		
2,800.0	2,800.0	2,802.8	2,802.4	7.3	4.9	-89.02	1.1	-65.4	65.5	53.3	12.16	5.382		
2,900.0	2,900.0	2,902.5	2,902.2	7.6	5.0	-88.70	1.5	-64.7	64.7	52.1	12.57	5.146		
2,988.3	2,988.3	2,990.4	2,990.1	7.8	5.2	-88.82	1.3	-64.4	64.4	51.5	12.95	4.975		
3,000.0	3,000.0	3,002.1	3,001.8	7.8	5.2	-88.91	1.2	-64.4	64.4	51.4	13.01	4.955		
3,100.0	3,100.0	3,102.0	3,101.7	8.1	5.4	-89.77	0.3	-64.6	64.6	51.1	13.46	4.799		
3,200.0	3,200.0	3,202.0	3,201.6	8.4	5.6	-90.46	-0.5	-64.9	64.9	50.9	13.93	4.658		
3,300.0	3,300.0	3,301.9	3,301.6	8.6	5.8	-91.05	-1.2	-65.1	65.1	50.8	14.40	4.525		
3,400.0	3,400.0	3,402.1	3,401.7	8.9	6.0	-91.77	-2.0	-65.3	65.3	50.5	14.87	4.394		
3,500.0	3,500.0	3,501.9	3,501.6	9.2	6.2	-92.51	-2.9	-65.5	65.5	50.2	15.35	4.270 ES		
3,600.0	3,600.0	3,601.6	3,601.2	9.4	6.4	-93.12	-3.6	-66.0	66.1	50.3	15.83	4.178		
3,700.0	3,700.0	3,701.3	3,700.9	9.7	6.6	-93.66	-4.3	-67.0	67.2	50.9	16.31	4.121		
3,800.0	3,800.0	3,800.6	3,800.3	10.0	6.8	-93.86	-4.6	-68.8	68.9	52.2	16.78	4.109 SF		
3,900.0	3,900.0	3,900.5	3,900.1	10.2	7.0	-93.96	-4.9	-71.2	71.4	54.2	17.25	4.139		
4,000.0	4,000.0	4,001.3	4,000.9	10.5	7.2	-93.85	-4.9	-73.1	73.3	55.6	17.72	4.136		
4,100.0	4,100.0	4,101.7	4,101.3	10.7	7.4	-174.08	-4.9	-74.0	76.8	58.7	18.11	4.239		
4,200.0	4,199.6	4,201.1	4,200.7	10.8	7.6	-174.38	-4.6	-74.7	85.3	66.9	18.37	4.641		
4,300.0	4,298.8	4,299.4	4,299.0	11.0	7.9	-175.01	-4.6	-76.1	99.6	81.0	18.61	5.353		
4,400.0	4,397.1	4,397.9	4,397.4	11.1	8.1	-175.94	-5.2	-77.5	119.2	100.4	18.81	6.339		
4,500.0	4,494.3	4,496.0	4,495.5	11.3	8.3	-176.78	-5.8	-78.3	143.4	124.5	18.96	7.565		
4,600.0	4,590.2	4,593.6	4,593.1	11.5	8.5	-177.38	-6.1	-78.2	171.8	152.7	19.02	9.029		
4,700.0	4,684.4	4,689.8	4,689.3	11.7	8.6	-177.85	-6.2	-77.2	204.1	185.1	18.97	10.761		
4,800.0	4,776.8	4,782.4	4,781.9	11.9	8.7	-178.04	-5.6	-75.9	241.0	222.1	18.84	12.788		
4,900.0	4,867.1	4,873.5	4,873.0	12.1	8.8	-178.19	-4.9	-74.7	282.8	264.1	18.68	15.138		
5,000.0	4,954.9	4,962.3	4,961.8	12.3	8.9	-178.34	-4.4	-73.5	329.1	310.7	18.47	17.816		
5,100.0	5,041.2	5,048.9	5,048.4	12.5	9.0	-178.57	-4.3	-72.1	378.3	359.6	18.69	20.238		
5,200.0	5,127.5	5,134.9	5,134.4	12.8	9.1	-178.78	-4.3	-71.0	427.8	408.8	18.99	22.525		
5,300.0	5,213.8	5,220.7	5,220.2	13.1	9.3	-178.96	-4.6	-70.0	477.4	458.1	19.30	24.732		
5,400.0	5,300.0	5,307.1	5,306.6	13.4	9.4	-179.13	-5.0	-69.1	527.1	507.5	19.63	26.855		
5,500.0	5,386.3	5,392.8	5,392.3	13.7	9.5	-179.25	-5.3	-68.4	577.0	557.0	19.96	28.904		
5,600.0	5,472.6	5,479.6	5,479.0	14.0	9.7	-179.34	-5.5	-67.7	627.0	606.7	20.30	30.883		
5,700.0	5,558.8	5,582.9	5,582.4	14.3	9.8	-179.39	-5.2	-66.4	676.5	655.8	20.66	32.743		
5,800.0	5,645.1	5,675.0	5,674.4	14.6	10.0	-179.29	-3.0	-63.2	723.7	702.7	21.00	34.463		
5,900.0	5,731.4	5,767.8	5,767.0	15.0	10.1	-179.16	-0.4	-59.8	770.8	749.4	21.35	36.104		
6,000.0	5,817.7	5,888.6	5,887.4	15.3	10.3	-178.60	8.7	-54.5	816.7	795.0	21.74	37.575		
6,100.0	5,903.9	5,999.8	5,997.3	15.7	10.5	-177.77	23.0	-45.7	858.6	836.4	22.12	38.809		
6,200.0	5,990.2	6,099.2	6,095.2	16.1	10.6	-176.98	37.6	-36.7	899.3	876.8	22.51	39.960		
6,300.0	6,076.5	6,256.4	6,249.0	16.4	10.9	-175.79	62.9	-16.3	936.5	913.5	22.99	40.726		
6,400.0	6,162.7	6,790.2	6,719.3	16.8	12.0	-168.98	214.6	165.5	961.6	937.3	24.34	39.507		
6,500.0	6,249.0	6,858.1	6,774.7	17.2	12.2	-168.86	222.3	204.0	953.5	928.8	24.73	38.561		
6,600.0	6,335.3	6,950.0	6,850.9	17.6	12.4	-169.86	213.4	254.0	947.1	922.0	25.11	37.714		

Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-372HN
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 11-372HN	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 #5 (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
6,686.8	6,410.2	6,989.3	6,883.5	17.9	12.5	-170.67	203.3	273.6	944.9	919.5	25.37	37.236	
6,700.0	6,421.6	7,000.0	6,892.3	18.0	12.5	-170.92	200.0	278.6	944.9	919.5	25.42	37.175	
6,800.0	6,507.8	7,034.7	6,921.2	18.4	12.6	-171.82	187.9	293.6	949.1	923.4	25.71	36.923	
6,900.0	6,594.1	7,075.0	6,954.4	18.8	12.6	-173.03	170.9	308.8	960.0	934.0	26.00	36.929	
7,000.0	6,680.4	7,121.1	6,991.6	19.2	12.7	-174.59	148.1	323.7	977.6	951.3	26.30	37.176	

Tailholt FD Horizontal Pad Sec.11-T6N-R67W - Tailholt FD 11-371HN - Wellbore #1 - Plan #2 (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	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)			
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	20.0	20.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	20.0	20.0	19.8	0.27	75.425		
200.0	200.0	200.0	200.0	0.4	0.4	90.02	0.0	20.0	20.0	19.2	0.80	25.142		
300.0	300.0	300.0	300.0	0.7	0.7	90.02	0.0	20.0	20.0	18.7	1.33	15.085		
400.0	400.0	400.0	400.0	0.9	0.9	90.02	0.0	20.0	20.0	18.2	1.86	10.775		
500.0	500.0	500.0	500.0	1.2	1.2	90.02	0.0	20.0	20.0	17.6	2.39	8.381		
600.0	600.0	600.0	600.0	1.5	1.5	90.02	0.0	20.0	20.0	17.1	2.92	6.857		
700.0	700.0	700.0	700.0	1.7	1.7	90.02	0.0	20.0	20.0	16.6	3.45	5.802		
800.0	800.0	800.0	800.0	2.0	2.0	90.02	0.0	20.0	20.0	16.0	3.98	5.028		
900.0	900.0	900.0	900.0	2.3	2.3	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	0.0	20.0	20.0	3.3	16.72	1.197	Level 2, CC, ES, SF	
3,300.0	3,300.0	3,298.9	3,298.8	8.6	8.6	89.19	0.3	22.6	22.6	5.4	17.19	1.314	Level 3	
3,400.0	3,400.0	3,397.2	3,396.9	8.9	8.7	87.54	1.3	30.1	30.3	12.7	17.59	1.723		
3,500.0	3,500.0	3,494.6	3,493.4	9.2	8.8	86.11	2.9	42.5	43.1	25.1	18.00	2.395		
3,600.0	3,600.0	3,590.4	3,587.6	9.4	9.0	85.12	5.1	59.4	60.9	42.5	18.41	3.310		
3,700.0	3,700.0	3,684.2	3,679.0	9.7	9.1	84.48	7.8	80.6	83.6	64.8	18.83	4.442		
3,800.0	3,800.0	3,775.7	3,767.0	10.0	9.3	84.05	11.0	105.4	111.0	91.8	19.25	5.768		
3,900.0	3,900.0	3,864.6	3,851.3	10.2	9.5	83.75	14.6	133.6	142.9	123.2	19.67	7.264		
4,000.0	4,000.0	3,950.6	3,931.4	10.5	9.6	83.55	18.6	164.4	179.1	159.0	20.11	8.910		
4,100.0	4,100.0	4,034.4	4,008.1	10.7	9.8	3.27	22.9	197.9	217.0	196.7	20.35	10.665		
4,200.0	4,199.6	4,117.1	4,082.2	10.8	10.0	3.18	27.6	234.2	254.1	233.6	20.56	12.359		
4,300.0	4,298.8	4,202.3	4,156.9	11.0	10.2	3.14	32.8	274.9	290.4	269.7	20.74	14.003		
4,400.0	4,397.1	4,292.3	4,234.8	11.1	10.4	3.16	38.6	319.7	323.9	303.0	20.88	15.513		
4,500.0	4,494.3	4,388.1	4,317.7	11.3	10.7	3.22	44.7	367.3	352.4	331.5	20.99	16.791		
4,600.0	4,590.2	4,485.3	4,401.8	11.5	11.0	3.32	50.9	415.6	375.9	354.9	21.06	17.848		
4,700.0	4,684.4	4,583.6	4,486.9	11.7	11.3	3.46	57.2	464.4	394.3	373.2	21.10	18.689		
4,800.0	4,776.8	4,682.7	4,572.7	11.9	11.6	3.64	63.6	513.7	407.6	386.5	21.10	19.319		
4,900.0	4,867.1	4,782.3	4,658.9	12.1	11.9	3.86	70.0	563.2	415.6	394.6	21.06	19.738		
5,000.0	4,954.9	4,882.3	4,745.4	12.3	12.3	4.13	76.4	612.8	418.5	397.5	20.98	19.949		
5,100.0	5,041.2	4,982.2	4,831.9	12.5	12.6	4.45	82.8	662.5	418.1	396.8	21.33	19.604		

Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-372HN
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 11-372HN	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 #5 (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		
5,200.0	5,127.5	5,082.2	4,918.4	12.8	13.0	4.76	89.2	712.2	417.7	395.9	21.75	19.202		
5,300.0	5,213.8	5,182.2	5,004.9	13.1	13.4	5.07	95.5	761.9	417.3	395.1	22.19	18.808		
5,400.0	5,300.0	5,282.2	5,091.5	13.4	13.8	5.38	101.9	811.6	416.9	394.3	22.63	18.421		
5,500.0	5,386.3	5,382.1	5,178.0	13.7	14.1	5.70	108.3	861.2	416.6	393.5	23.09	18.042		
5,600.0	5,472.6	5,482.1	5,264.5	14.0	14.5	6.01	114.7	910.9	416.2	392.7	23.55	17.672		
5,700.0	5,558.8	5,582.1	5,351.0	14.3	14.9	6.33	121.1	960.6	415.9	391.9	24.03	17.310		
5,800.0	5,645.1	5,682.0	5,437.5	14.6	15.4	6.64	127.5	1,010.3	415.6	391.1	24.51	16.957		
5,900.0	5,731.4	5,782.0	5,524.0	15.0	15.8	6.96	133.9	1,060.0	415.3	390.3	25.00	16.612		
6,000.0	5,817.7	5,882.0	5,610.6	15.3	16.2	7.28	140.3	1,109.6	415.0	389.5	25.49	16.276		
6,100.0	5,903.9	5,982.0	5,697.1	15.7	16.6	7.59	146.7	1,159.3	414.7	388.7	26.00	15.949		
6,200.0	5,990.2	6,081.9	5,783.6	16.1	17.0	7.91	153.1	1,209.0	414.4	387.9	26.51	15.631		
6,300.0	6,076.5	6,181.9	5,870.1	16.4	17.5	8.23	159.5	1,258.7	414.1	387.1	27.03	15.321		
6,400.0	6,162.7	6,281.9	5,956.6	16.8	17.9	8.55	165.9	1,308.4	413.9	386.3	27.56	15.020		
6,500.0	6,249.0	6,381.9	6,043.2	17.2	18.3	8.87	172.3	1,358.0	413.6	385.6	28.09	14.727		
6,600.0	6,335.3	6,481.8	6,129.7	17.6	18.8	9.19	178.7	1,407.7	413.4	384.8	28.63	14.442		
6,700.0	6,421.6	6,581.8	6,216.2	18.0	19.2	9.50	185.1	1,457.4	413.2	384.0	29.17	14.165		
6,800.0	6,507.8	6,681.8	6,302.7	18.4	19.7	9.82	191.5	1,507.1	413.0	383.3	29.72	13.896		
6,900.0	6,594.1	6,781.8	6,389.2	18.8	20.1	10.14	197.9	1,556.8	412.8	382.6	30.28	13.634		
7,000.0	6,680.4	6,881.7	6,475.8	19.2	20.6	10.46	204.3	1,606.4	412.7	381.8	30.84	13.380		
7,100.0	6,766.8	6,981.6	6,562.2	19.6	21.0	-1.74	210.7	1,656.1	412.4	381.0	31.34	13.157		
7,185.4	6,839.9	7,065.2	6,634.6	19.9	21.4	-21.99	216.1	1,697.6	412.0	380.3	31.72	12.986		
7,200.0	6,852.2	7,079.2	6,646.6	20.0	21.5	-25.29	217.0	1,704.6	412.0	380.2	31.81	12.952		
7,300.0	6,932.6	7,170.0	6,725.2	20.3	21.9	-45.20	222.8	1,749.7	414.8	382.2	32.56	12.737		
7,400.0	7,003.7	7,273.9	6,814.9	20.5	22.4	-60.79	216.1	1,801.2	423.9	390.4	33.52	12.648		
7,500.0	7,062.1	7,396.5	6,915.5	20.7	22.8	-72.61	177.5	1,859.0	438.1	403.9	34.14	12.831		
7,600.0	7,104.5	7,546.2	7,019.8	20.8	23.2	-81.65	89.7	1,919.0	454.1	419.9	34.12	13.308		
7,700.0	7,129.0	7,728.4	7,103.6	20.9	23.5	-87.58	-63.1	1,967.3	466.4	432.9	33.57	13.896		
7,800.0	7,134.6	7,909.7	7,127.6	21.0	23.7	-89.15	-241.1	1,981.3	469.9	436.6	33.23	14.138		
7,900.0	7,134.0	8,009.7	7,127.1	21.1	23.8	-89.16	-341.1	1,981.1	469.9	436.5	33.37	14.081		
8,000.0	7,133.5	8,109.7	7,126.6	21.2	23.9	-89.16	-441.1	1,980.9	469.8	436.2	33.60	13.982		
8,100.0	7,132.9	8,209.7	7,126.1	21.4	24.1	-89.17	-541.1	1,980.8	469.8	435.9	33.94	13.845		
8,200.0	7,132.3	8,309.7	7,125.6	21.6	24.3	-89.18	-641.1	1,980.6	469.8	435.5	34.37	13.671		
8,300.0	7,131.8	8,409.7	7,125.1	21.8	24.5	-89.19	-741.1	1,980.4	469.8	434.9	34.89	13.467		
8,400.0	7,131.2	8,509.7	7,124.6	22.1	24.8	-89.20	-841.1	1,980.3	469.8	434.3	35.50	13.235		
8,500.0	7,130.6	8,609.7	7,124.1	22.4	25.1	-89.20	-941.1	1,980.1	469.8	433.6	36.19	12.981		
8,600.0	7,130.1	8,709.7	7,123.6	22.8	25.4	-89.21	-1,041.1	1,979.9	469.8	432.8	36.96	12.709		
8,700.0	7,129.5	8,809.7	7,123.1	23.1	25.8	-89.22	-1,141.1	1,979.8	469.8	432.0	37.81	12.424		
8,800.0	7,129.0	8,909.7	7,122.6	23.5	26.1	-89.23	-1,241.1	1,979.6	469.8	431.0	38.73	12.130		
8,900.0	7,128.4	9,009.7	7,122.1	23.9	26.5	-89.24	-1,341.1	1,979.4	469.8	430.1	39.71	11.830		
9,000.0	7,127.8	9,109.7	7,121.6	24.4	26.9	-89.25	-1,441.1	1,979.3	469.8	429.0	40.75	11.528		
9,100.0	7,127.3	9,209.7	7,121.1	24.8	27.4	-89.25	-1,541.0	1,979.1	469.7	427.9	41.85	11.225		
9,200.0	7,126.7	9,309.7	7,120.7	25.3	27.9	-89.26	-1,641.0	1,978.9	469.7	426.7	43.00	10.925		
9,300.0	7,126.1	9,409.7	7,120.2	25.8	28.4	-89.27	-1,741.0	1,978.8	469.7	425.5	44.19	10.630		
9,400.0	7,125.6	9,509.7	7,119.7	26.4	28.9	-89.28	-1,841.0	1,978.6	469.7	424.3	45.43	10.340		
9,500.0	7,125.0	9,609.7	7,119.2	26.9	29.4	-89.29	-1,941.0	1,978.4	469.7	423.0	46.71	10.057		
9,600.0	7,124.4	9,709.7	7,118.7	27.5	29.9	-89.29	-2,041.0	1,978.3	469.7	421.7	48.02	9.781		
9,700.0	7,123.9	9,809.7	7,118.2	28.1	30.5	-89.30	-2,141.0	1,978.1	469.7	420.3	49.37	9.513		
9,800.0	7,123.3	9,909.7	7,117.7	28.7	31.1	-89.31	-2,241.0	1,977.9	469.7	418.9	50.75	9.254		
9,900.0	7,122.8	10,009.7	7,117.2	29.3	31.7	-89.32	-2,341.0	1,977.7	469.7	417.5	52.16	9.004		
10,000.0	7,122.2	10,109.7	7,116.7	29.9	32.3	-89.33	-2,441.0	1,977.6	469.7	416.1	53.60	8.763		
10,100.0	7,121.6	10,209.7	7,116.2	30.6	32.9	-89.34	-2,541.0	1,977.4	469.7	414.6	55.06	8.530		
10,200.0	7,121.1	10,309.7	7,115.7	31.2	33.5	-89.34	-2,641.0	1,977.2	469.7	413.1	56.54	8.307		

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 11-372HN
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 11-372HN	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 #5 (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
10,300.0	7,120.5	10,409.7	7,115.2	31.9	34.2	-89.35	-2,741.0	1,977.1	469.6	411.6	58.04	8.091	
10,400.0	7,119.9	10,509.7	7,114.7	32.6	34.8	-89.36	-2,841.0	1,976.9	469.6	410.1	59.57	7.884	
10,500.0	7,119.4	10,609.7	7,114.2	33.3	35.5	-89.37	-2,941.0	1,976.7	469.6	408.5	61.11	7.685	
10,600.0	7,118.8	10,709.7	7,113.7	34.0	36.2	-89.38	-3,041.0	1,976.6	469.6	407.0	62.66	7.494	
10,700.0	7,118.3	10,809.7	7,113.2	34.7	36.9	-89.38	-3,141.0	1,976.4	469.6	405.4	64.24	7.311	
10,800.0	7,117.7	10,909.7	7,112.7	35.4	37.6	-89.39	-3,241.0	1,976.2	469.6	403.8	65.82	7.134	
10,900.0	7,117.1	11,009.7	7,112.2	36.2	38.3	-89.40	-3,341.0	1,976.1	469.6	402.2	67.42	6.965	
11,000.0	7,116.6	11,109.7	7,111.7	36.9	39.0	-89.41	-3,441.0	1,975.9	469.6	400.6	69.03	6.802	
11,100.0	7,116.0	11,209.7	7,111.2	37.7	39.7	-89.42	-3,541.0	1,975.7	469.6	398.9	70.66	6.646	
11,200.0	7,115.4	11,309.7	7,110.7	38.4	40.5	-89.43	-3,641.0	1,975.6	469.6	397.3	72.29	6.496	
11,300.0	7,114.9	11,409.7	7,110.2	39.2	41.2	-89.43	-3,741.0	1,975.4	469.6	395.6	73.93	6.351	
11,400.0	7,114.3	11,509.7	7,109.7	40.0	41.9	-89.44	-3,841.0	1,975.2	469.6	394.0	75.59	6.212	
11,500.0	7,113.7	11,609.7	7,109.2	40.8	42.7	-89.45	-3,941.0	1,975.1	469.5	392.3	77.25	6.078	
11,600.0	7,113.2	11,709.7	7,108.7	41.5	43.5	-89.46	-4,041.0	1,974.9	469.5	390.6	78.92	5.950	
11,700.0	7,112.6	11,809.7	7,108.3	42.3	44.2	-89.47	-4,141.0	1,974.7	469.5	388.9	80.59	5.826	
11,800.0	7,112.1	11,909.7	7,107.8	43.1	45.0	-89.48	-4,241.0	1,974.6	469.5	387.2	82.28	5.706	
11,900.0	7,111.5	12,009.7	7,107.3	43.9	45.8	-89.48	-4,341.0	1,974.4	469.5	385.5	83.97	5.591	
12,000.0	7,110.9	12,109.7	7,106.8	44.7	46.6	-89.49	-4,441.0	1,974.2	469.5	383.8	85.67	5.480	
12,100.0	7,110.4	12,209.7	7,106.3	45.5	47.4	-89.50	-4,541.0	1,974.1	469.5	382.1	87.37	5.374	
12,200.0	7,109.8	12,309.7	7,105.8	46.4	48.2	-89.51	-4,641.0	1,973.9	469.5	380.4	89.08	5.270	
12,214.9	7,109.7	12,324.6	7,105.7	46.5	48.3	-89.51	-4,655.9	1,973.9	469.5	380.2	89.34	5.255	
12,219.0	7,109.7	12,324.6	7,105.7	46.5	48.3	-89.51	-4,655.9	1,973.9	469.5	380.1	89.37	5.253	

Tailholt FD Horizontal Pad Sec.11-T6N-R67W - Tailholt FD 11-373HC - 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	
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-19.2	19.2	19.2	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-19.2	19.2	18.9	0.27	72.283	
200.0	200.0	200.0	200.0	0.4	0.4	-90.00	0.0	-19.2	19.2	18.4	0.80	24.094	
300.0	300.0	300.0	300.0	0.7	0.7	-90.00	0.0	-19.2	19.2	17.9	1.33	14.457	
400.0	400.0	400.0	400.0	0.9	0.9	-90.00	0.0	-19.2	19.2	17.3	1.86	10.326	
500.0	500.0	500.0	500.0	1.2	1.2	-90.00	0.0	-19.2	19.2	16.8	2.39	8.031	
600.0	600.0	600.0	600.0	1.5	1.5	-90.00	0.0	-19.2	19.2	16.3	2.92	6.571	
700.0	700.0	700.0	700.0	1.7	1.7	-90.00	0.0	-19.2	19.2	15.7	3.45	5.560	
800.0	800.0	800.0	800.0	2.0	2.0	-90.00	0.0	-19.2	19.2	15.2	3.98	4.819	
900.0	900.0	900.0	900.0	2.3	2.3	-90.00	0.0	-19.2	19.2	14.7	4.51	4.252	
1,000.0	1,000.0	1,000.0	1,000.0	2.5	2.5	-90.00	0.0	-19.2	19.2	14.1	5.04	3.804	
1,100.0	1,100.0	1,100.0	1,100.0	2.8	2.8	-90.00	0.0	-19.2	19.2	13.6	5.57	3.442	
1,200.0	1,200.0	1,200.0	1,200.0	3.1	3.1	-90.00	0.0	-19.2	19.2	13.1	6.11	3.143	
1,300.0	1,300.0	1,300.0	1,300.0	3.3	3.3	-90.00	0.0	-19.2	19.2	12.6	6.64	2.891	
1,400.0	1,400.0	1,400.0	1,400.0	3.6	3.6	-90.00	0.0	-19.2	19.2	12.0	7.17	2.677	
1,500.0	1,500.0	1,500.0	1,500.0	3.8	3.8	-90.00	0.0	-19.2	19.2	11.5	7.70	2.493	
1,600.0	1,600.0	1,600.0	1,600.0	4.1	4.1	-90.00	0.0	-19.2	19.2	11.0	8.23	2.332	
1,700.0	1,700.0	1,700.0	1,700.0	4.4	4.4	-90.00	0.0	-19.2	19.2	10.4	8.76	2.190	
1,800.0	1,800.0	1,800.0	1,800.0	4.6	4.6	-90.00	0.0	-19.2	19.2	9.9	9.29	2.065	
1,900.0	1,900.0	1,900.0	1,900.0	4.9	4.9	-90.00	0.0	-19.2	19.2	9.4	9.82	1.954	
2,000.0	2,000.0	2,000.0	2,000.0	5.2	5.2	-90.00	0.0	-19.2	19.2	8.8	10.35	1.853	
2,100.0	2,100.0	2,100.0	2,100.0	5.4	5.4	-90.00	0.0	-19.2	19.2	8.3	10.88	1.763	
2,200.0	2,200.0	2,200.0	2,200.0	5.7	5.7	-90.00	0.0	-19.2	19.2	7.8	11.41	1.681	
2,300.0	2,300.0	2,300.0	2,300.0	6.0	6.0	-90.00	0.0	-19.2	19.2	7.2	11.95	1.606	
2,400.0	2,400.0	2,400.0	2,400.0	6.2	6.2	-90.00	0.0	-19.2	19.2	6.7	12.48	1.538	
2,500.0	2,500.0	2,500.0	2,500.0	6.5	6.5	-90.00	0.0	-19.2	19.2	6.2	13.01	1.475	Level 3
2,600.0	2,600.0	2,600.0	2,600.0	6.8	6.8	-90.00	0.0	-19.2	19.2	5.6	13.54	1.417	Level 3
2,700.0	2,700.0	2,700.0	2,700.0	7.0	7.0	-90.00	0.0	-19.2	19.2	5.1	14.07	1.364	Level 3
2,800.0	2,800.0	2,800.0	2,800.0	7.3	7.3	-90.00	0.0	-19.2	19.2	4.6	14.60	1.314	Level 3
2,900.0	2,900.0	2,900.0	2,900.0	7.6	7.6	-90.00	0.0	-19.2	19.2	4.1	15.13	1.268	Level 3
3,000.0	3,000.0	3,000.0	3,000.0	7.8	7.8	-90.00	0.0	-19.2	19.2	3.5	15.66	1.225	Level 2
3,100.0	3,100.0	3,100.0	3,100.0	8.1	8.1	-90.00	0.0	-19.2	19.2	3.0	16.19	1.185	Level 2
3,200.0	3,200.0	3,200.0	3,200.0	8.4	8.4	-90.00	0.0	-19.2	19.2	2.5	16.72	1.147	Level 2
3,300.0	3,300.0	3,300.0	3,300.0	8.6	8.6	-90.00	0.0	-19.2	19.2	1.9	17.25	1.112	Level 2
3,400.0	3,400.0	3,400.0	3,400.0	8.9	8.9	-90.00	0.0	-19.2	19.2	1.4	17.78	1.079	Level 2
3,500.0	3,500.0	3,500.0	3,500.0	9.2	9.2	-90.00	0.0	-19.2	19.2	0.9	18.32	1.048	Level 2
3,600.0	3,600.0	3,600.0	3,600.0	9.4	9.4	-90.00	0.0	-19.2	19.2	0.3	18.85	1.018	Level 2
3,700.0	3,700.0	3,700.0	3,700.0	9.7	9.7	-90.00	0.0	-19.2	19.2	-0.2	19.38	0.990	Level 1
3,800.0	3,800.0	3,800.0	3,800.0	10.0	10.0	-90.00	0.0	-19.2	19.2	-0.7	19.91	0.964	Level 1
3,900.0	3,900.0	3,900.0	3,900.0	10.2	10.2	-90.00	0.0	-19.2	19.2	-1.3	20.44	0.939	Level 1
4,000.0	4,000.0	4,000.0	4,000.0	10.5	10.5	-90.00	0.0	-19.2	19.2	-1.8	20.97	0.915	Level 1, CC, ES, SF
4,100.0	4,100.0	4,100.0	4,100.0	10.7	10.8	-171.27	0.0	-19.2	21.8	0.4	21.41	1.017	Level 2
4,200.0	4,199.6	4,199.6	4,199.6	10.8	11.0	-173.55	0.0	-19.2	29.5	7.8	21.73	1.360	Level 3
4,300.0	4,298.8	4,298.8	4,298.8	11.0	11.3	-175.50	0.0	-19.2	42.5	20.5	22.00	1.934	
4,400.0	4,397.1	4,397.1	4,397.1	11.1	11.5	-176.82	0.0	-19.2	60.7	38.5	22.20	2.735	
4,500.0	4,494.3	4,494.3	4,494.3	11.3	11.8	-177.67	0.0	-19.2	84.0	61.7	22.34	3.762	
4,600.0	4,590.2	4,590.2	4,590.2	11.5	12.1	-178.23	0.0	-19.2	112.4	90.0	22.42	5.015	
4,700.0	4,684.4	4,691.3	4,691.3	11.7	12.3	-178.58	0.4	-17.1	143.8	121.4	22.39	6.421	
4,800.0	4,776.8	4,795.0	4,794.6	11.9	12.4	-178.75	2.0	-9.5	175.0	152.8	22.26	7.865	
4,900.0	4,867.1	4,900.5	4,899.3	12.1	12.6	-178.80	4.8	3.9	206.1	184.0	22.06	9.339	
5,000.0	4,954.9	5,008.2	5,005.1	12.3	12.8	-178.79	8.9	23.3	236.8	214.9	21.83	10.848	
5,100.0	5,041.2	5,118.6	5,112.2	12.5	12.9	-178.73	14.4	49.3	265.1	243.0	22.10	11.996	

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Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-372HN
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 11-372HN	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 #5 (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		
5,200.0	5,127.5	5,232.4	5,220.9	12.8	13.1	-178.62	21.3	82.4	287.9	265.4	22.47	12.811		
5,300.0	5,213.8	5,349.1	5,330.0	13.1	13.4	-178.44	29.8	122.8	304.7	281.8	22.86	13.330		
5,400.0	5,300.0	5,467.7	5,438.2	13.4	13.6	-178.20	39.8	170.4	315.4	292.1	23.26	13.561		
5,500.0	5,386.3	5,587.5	5,544.1	13.7	13.9	-177.89	51.3	225.2	319.9	296.3	23.67	13.515		
5,600.0	5,472.6	5,695.4	5,636.8	14.0	14.1	-177.55	62.6	279.1	319.4	295.3	24.08	13.264		
5,700.0	5,558.8	5,795.3	5,722.5	14.3	14.4	-177.23	73.1	329.5	318.3	293.8	24.48	13.004		
5,800.0	5,645.1	5,895.3	5,808.1	14.6	14.6	-176.90	83.7	380.0	317.3	292.4	24.89	12.747		
5,900.0	5,731.4	5,995.3	5,893.8	15.0	14.9	-176.58	94.3	430.4	316.3	291.0	25.31	12.495		
6,000.0	5,817.7	6,095.3	5,979.5	15.3	15.2	-176.25	104.9	480.9	315.3	289.5	25.74	12.246		
6,100.0	5,903.9	6,195.3	6,065.1	15.7	15.5	-175.92	115.5	531.3	314.3	288.1	26.18	12.002		
6,200.0	5,990.2	6,295.2	6,150.8	16.1	15.8	-175.58	126.0	581.8	313.3	286.6	26.63	11.763		
6,300.0	6,076.5	6,395.2	6,236.5	16.4	16.1	-175.25	136.6	632.2	312.3	285.2	27.09	11.528		
6,400.0	6,162.7	6,495.2	6,322.1	16.8	16.5	-174.91	147.2	682.7	311.3	283.8	27.56	11.298		
6,500.0	6,249.0	6,595.2	6,407.8	17.2	16.8	-174.57	157.8	733.1	310.4	282.3	28.03	11.073		
6,600.0	6,335.3	6,695.1	6,493.5	17.6	17.1	-174.23	168.4	783.6	309.4	280.9	28.51	10.853		
6,700.0	6,421.6	6,795.1	6,579.1	18.0	17.5	-173.88	178.9	834.0	308.5	279.5	29.00	10.637		
6,800.0	6,507.8	6,895.1	6,664.8	18.4	17.9	-173.54	189.5	884.5	307.6	278.1	29.50	10.427		
6,900.0	6,594.1	6,995.1	6,750.5	18.8	18.2	-173.19	200.1	934.9	306.7	276.7	30.00	10.221		
7,000.0	6,680.4	7,095.1	6,836.1	19.2	18.6	-172.84	210.7	985.3	305.8	275.2	30.51	10.020		
7,100.0	6,766.8	7,194.7	6,921.6	19.6	19.0	176.07	220.8	1,035.6	304.8	273.8	31.05	9.818		
7,200.0	6,852.2	7,294.6	7,007.4	20.0	19.3	157.34	215.8	1,086.1	304.1	272.7	31.42	9.681		
7,300.0	6,932.6	7,396.8	7,091.8	20.3	19.6	144.29	187.6	1,135.8	303.9	272.4	31.51	9.644		
7,309.9	6,940.1	7,407.0	7,100.0	20.3	19.7	143.31	183.5	1,140.5	303.9	272.4	31.50	9.646		
7,400.0	7,003.7	7,501.3	7,170.1	20.5	19.9	136.49	136.3	1,181.7	304.0	272.7	31.37	9.693		
7,500.0	7,062.1	7,608.0	7,237.1	20.7	20.0	132.13	63.4	1,220.9	304.5	273.4	31.10	9.791		
7,600.0	7,104.5	7,716.6	7,287.8	20.8	20.1	129.82	-27.6	1,250.4	305.1	274.2	30.87	9.883		
7,700.0	7,129.0	7,826.6	7,318.0	20.9	20.2	128.78	-131.6	1,267.9	305.7	274.9	30.88	9.901		
7,800.0	7,134.6	7,935.0	7,325.7	21.0	20.3	128.62	-239.5	1,272.2	306.3	275.1	31.19	9.819		
7,900.0	7,134.0	8,035.0	7,326.0	21.1	20.4	128.74	-339.5	1,272.0	306.8	275.2	31.53	9.729		
8,000.0	7,133.5	8,135.0	7,326.2	21.2	20.5	128.85	-439.5	1,271.9	307.2	275.3	31.94	9.621		
8,100.0	7,132.9	8,235.0	7,326.4	21.4	20.7	128.97	-539.5	1,271.7	307.7	275.3	32.41	9.495		
8,200.0	7,132.3	8,335.0	7,326.6	21.6	20.8	129.08	-639.5	1,271.6	308.2	275.3	32.95	9.353		
8,300.0	7,131.8	8,435.0	7,326.9	21.8	21.1	129.20	-739.5	1,271.4	308.7	275.2	33.56	9.199		
8,400.0	7,131.2	8,535.0	7,327.1	22.1	21.3	129.31	-839.5	1,271.3	309.2	275.0	34.22	9.035		
8,500.0	7,130.6	8,635.0	7,327.3	22.4	21.6	129.42	-939.5	1,271.1	309.7	274.8	34.94	8.864		
8,600.0	7,130.1	8,735.0	7,327.5	22.8	21.9	129.54	-1,039.5	1,271.0	310.2	274.5	35.71	8.687		
8,700.0	7,129.5	8,835.0	7,327.8	23.1	22.3	129.65	-1,139.5	1,270.8	310.7	274.2	36.53	8.506		
8,800.0	7,129.0	8,935.0	7,328.0	23.5	22.6	129.76	-1,239.5	1,270.7	311.2	273.8	37.39	8.323		
8,900.0	7,128.4	9,035.0	7,328.2	23.9	23.0	129.88	-1,339.5	1,270.5	311.7	273.4	38.29	8.140		
9,000.0	7,127.8	9,135.0	7,328.4	24.4	23.5	129.99	-1,439.5	1,270.4	312.2	273.0	39.23	7.958		
9,100.0	7,127.3	9,235.0	7,328.7	24.8	23.9	130.10	-1,539.5	1,270.2	312.7	272.5	40.20	7.778		
9,200.0	7,126.7	9,335.0	7,328.9	25.3	24.4	130.21	-1,639.5	1,270.1	313.2	272.0	41.20	7.601		
9,300.0	7,126.1	9,435.0	7,329.1	25.8	24.9	130.32	-1,739.5	1,269.9	313.7	271.5	42.24	7.427		
9,400.0	7,125.6	9,535.0	7,329.3	26.4	25.5	130.43	-1,839.5	1,269.8	314.2	270.9	43.30	7.257		
9,500.0	7,125.0	9,635.0	7,329.6	26.9	26.0	130.54	-1,939.5	1,269.6	314.7	270.3	44.38	7.091		
9,600.0	7,124.4	9,735.0	7,329.8	27.5	26.6	130.65	-2,039.5	1,269.4	315.2	269.7	45.49	6.929		
9,700.0	7,123.9	9,835.0	7,330.0	28.1	27.2	130.76	-2,139.5	1,269.3	315.7	269.1	46.62	6.773		
9,800.0	7,123.3	9,935.0	7,330.3	28.7	27.8	130.87	-2,239.5	1,269.1	316.2	268.5	47.76	6.621		
9,900.0	7,122.8	10,035.0	7,330.5	29.3	28.5	130.98	-2,339.4	1,269.0	316.7	267.8	48.92	6.474		
10,000.0	7,122.2	10,135.0	7,330.7	29.9	29.1	131.09	-2,439.4	1,268.8	317.2	267.1	50.10	6.332		
10,100.0	7,121.6	10,235.0	7,330.9	30.6	29.8	131.20	-2,539.4	1,268.7	317.8	266.5	51.29	6.195		
10,200.0	7,121.1	10,335.0	7,331.2	31.2	30.5	131.31	-2,639.4	1,268.5	318.3	265.8	52.50	6.062		

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 11-372HN
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 11-372HN	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 #5 (10-22-13)	Offset TVD Reference:	Offset Datum

Offset Design Tailholt FD Horizontal Pad Sec.11-T6N-R67W - Tailholt FD 11-373HC - 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	7,120.5	10,435.0	7,331.4	31.9	31.2	131.41	-2,739.4	1,268.4	318.8	265.1	53.72	5.935	
10,400.0	7,119.9	10,535.0	7,331.6	32.6	31.9	131.52	-2,839.4	1,268.2	319.3	264.4	54.94	5.811	
10,500.0	7,119.4	10,635.0	7,331.8	33.3	32.6	131.63	-2,939.4	1,268.1	319.8	263.6	56.18	5.693	
10,600.0	7,118.8	10,735.0	7,332.1	34.0	33.3	131.73	-3,039.4	1,267.9	320.3	262.9	57.43	5.578	
10,700.0	7,118.3	10,835.0	7,332.3	34.7	34.1	131.84	-3,139.4	1,267.8	320.9	262.2	58.68	5.468	
10,800.0	7,117.7	10,935.0	7,332.5	35.4	34.8	131.94	-3,239.4	1,267.6	321.4	261.4	59.94	5.361	
10,900.0	7,117.1	11,035.0	7,332.7	36.2	35.6	132.05	-3,339.4	1,267.5	321.9	260.7	61.21	5.259	
11,000.0	7,116.6	11,135.0	7,333.0	36.9	36.3	132.16	-3,439.4	1,267.3	322.4	259.9	62.48	5.160	
11,100.0	7,116.0	11,235.0	7,333.2	37.7	37.1	132.26	-3,539.4	1,267.2	322.9	259.2	63.76	5.065	
11,200.0	7,115.4	11,334.9	7,333.4	38.4	37.9	132.36	-3,639.4	1,267.0	323.5	258.4	65.05	4.973	
11,300.0	7,114.9	11,434.9	7,333.6	39.2	38.7	132.47	-3,739.4	1,266.9	324.0	257.6	66.34	4.884	
11,400.0	7,114.3	11,534.9	7,333.9	40.0	39.5	132.57	-3,839.4	1,266.7	324.5	256.9	67.63	4.798	
11,500.0	7,113.7	11,634.9	7,334.1	40.8	40.3	132.68	-3,939.4	1,266.6	325.0	256.1	68.92	4.716	
11,600.0	7,113.2	11,734.9	7,334.3	41.5	41.1	132.78	-4,039.4	1,266.4	325.6	255.3	70.22	4.636	
11,700.0	7,112.6	11,834.9	7,334.5	42.3	41.9	132.88	-4,139.4	1,266.3	326.1	254.6	71.53	4.559	
11,800.0	7,112.1	11,934.9	7,334.8	43.1	42.7	132.98	-4,239.4	1,266.1	326.6	253.8	72.83	4.485	
11,900.0	7,111.5	12,034.9	7,335.0	43.9	43.6	133.09	-4,339.4	1,266.0	327.2	253.0	74.14	4.413	
12,000.0	7,110.9	12,134.9	7,335.2	44.7	44.4	133.19	-4,439.4	1,265.8	327.7	252.2	75.45	4.343	
12,100.0	7,110.4	12,234.9	7,335.4	45.5	45.2	133.29	-4,539.4	1,265.7	328.2	251.5	76.76	4.276	
12,200.0	7,109.8	12,334.9	7,335.7	46.4	46.1	133.39	-4,639.4	1,265.5	328.8	250.7	78.07	4.211	
12,219.0	7,109.7	12,353.9	7,335.7	46.5	46.2	133.41	-4,658.3	1,265.5	328.9	250.5	78.32	4.199	

Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-372HN
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 11-372HN	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 #5 (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	-88.46	1.1	-39.2	39.2					
100.0	100.0	100.0	100.0	0.1	0.1	-88.46	1.1	-39.2	39.2	39.0	0.27	147.761		
200.0	200.0	200.0	200.0	0.4	0.4	-88.46	1.1	-39.2	39.2	38.4	0.80	49.254		
300.0	300.0	300.0	300.0	0.7	0.7	-88.46	1.1	-39.2	39.2	37.9	1.33	29.552		
400.0	400.0	400.0	400.0	0.9	0.9	-88.46	1.1	-39.2	39.2	37.4	1.86	21.109		
500.0	500.0	500.0	500.0	1.2	1.2	-88.46	1.1	-39.2	39.2	36.8	2.39	16.418		
600.0	600.0	600.0	600.0	1.5	1.5	-88.46	1.1	-39.2	39.2	36.3	2.92	13.433		
700.0	700.0	700.0	700.0	1.7	1.7	-88.46	1.1	-39.2	39.2	35.8	3.45	11.366		
800.0	800.0	800.0	800.0	2.0	2.0	-88.46	1.1	-39.2	39.2	35.2	3.98	9.851		
900.0	900.0	900.0	900.0	2.3	2.3	-88.46	1.1	-39.2	39.2	34.7	4.51	8.692		
1,000.0	1,000.0	1,000.0	1,000.0	2.5	2.5	-88.46	1.1	-39.2	39.2	34.2	5.04	7.777		
1,100.0	1,100.0	1,100.0	1,100.0	2.8	2.8	-88.46	1.1	-39.2	39.2	33.6	5.57	7.036		
1,200.0	1,200.0	1,200.0	1,200.0	3.1	3.1	-88.46	1.1	-39.2	39.2	33.1	6.11	6.424		
1,300.0	1,300.0	1,300.0	1,300.0	3.3	3.3	-88.46	1.1	-39.2	39.2	32.6	6.64	5.910		
1,400.0	1,400.0	1,400.0	1,400.0	3.6	3.6	-88.46	1.1	-39.2	39.2	32.1	7.17	5.473		
1,500.0	1,500.0	1,500.0	1,500.0	3.8	3.8	-88.46	1.1	-39.2	39.2	31.5	7.70	5.095		
1,600.0	1,600.0	1,600.0	1,600.0	4.1	4.1	-88.46	1.1	-39.2	39.2	31.0	8.23	4.766		
1,700.0	1,700.0	1,700.0	1,700.0	4.4	4.4	-88.46	1.1	-39.2	39.2	30.5	8.76	4.478		
1,800.0	1,800.0	1,800.0	1,800.0	4.6	4.6	-88.46	1.1	-39.2	39.2	29.9	9.29	4.222		
1,900.0	1,900.0	1,900.0	1,900.0	4.9	4.9	-88.46	1.1	-39.2	39.2	29.4	9.82	3.994		
2,000.0	2,000.0	2,000.0	2,000.0	5.2	5.2	-88.46	1.1	-39.2	39.2	28.9	10.35	3.789		
2,100.0	2,100.0	2,100.0	2,100.0	5.4	5.4	-88.46	1.1	-39.2	39.2	28.3	10.88	3.604		
2,200.0	2,200.0	2,200.0	2,200.0	5.7	5.7	-88.46	1.1	-39.2	39.2	27.8	11.41	3.436		
2,300.0	2,300.0	2,300.0	2,300.0	6.0	6.0	-88.46	1.1	-39.2	39.2	27.3	11.95	3.284		
2,400.0	2,400.0	2,400.0	2,400.0	6.2	6.2	-88.46	1.1	-39.2	39.2	26.7	12.48	3.144		
2,500.0	2,500.0	2,500.0	2,500.0	6.5	6.5	-88.46	1.1	-39.2	39.2	26.2	13.01	3.016		
2,600.0	2,600.0	2,600.0	2,600.0	6.8	6.8	-88.46	1.1	-39.2	39.2	25.7	13.54	2.897		
2,700.0	2,700.0	2,700.0	2,700.0	7.0	7.0	-88.46	1.1	-39.2	39.2	25.2	14.07	2.788		
2,800.0	2,800.0	2,800.0	2,800.0	7.3	7.3	-88.46	1.1	-39.2	39.2	24.6	14.60	2.687		
2,900.0	2,900.0	2,900.0	2,900.0	7.6	7.6	-88.46	1.1	-39.2	39.2	24.1	15.13	2.592		
3,000.0	3,000.0	3,000.0	3,000.0	7.8	7.8	-88.46	1.1	-39.2	39.2	23.6	15.66	2.504		
3,100.0	3,100.0	3,100.0	3,100.0	8.1	8.1	-88.46	1.1	-39.2	39.2	23.0	16.19	2.422		
3,200.0	3,200.0	3,200.0	3,200.0	8.4	8.4	-88.46	1.1	-39.2	39.2	22.5	16.72	2.345		
3,300.0	3,300.0	3,300.0	3,300.0	8.6	8.6	-88.46	1.1	-39.2	39.2	22.0	17.25	2.273		
3,400.0	3,400.0	3,400.0	3,400.0	8.9	8.9	-88.46	1.1	-39.2	39.2	21.4	17.78	2.205		
3,500.0	3,500.0	3,500.0	3,500.0	9.2	9.2	-88.46	1.1	-39.2	39.2	20.9	18.32	2.141		
3,600.0	3,600.0	3,600.0	3,600.0	9.4	9.4	-88.46	1.1	-39.2	39.2	20.4	18.85	2.081		
3,700.0	3,700.0	3,700.0	3,700.0	9.7	9.7	-88.46	1.1	-39.2	39.2	19.8	19.38	2.024		
3,800.0	3,800.0	3,800.0	3,800.0	10.0	10.0	-88.46	1.1	-39.2	39.2	19.3	19.91	1.970		
3,900.0	3,900.0	3,900.0	3,900.0	10.2	10.2	-88.46	1.1	-39.2	39.2	18.8	20.44	1.919		
4,000.0	4,000.0	4,000.0	4,000.0	10.5	10.5	-88.46	1.1	-39.2	39.2	18.3	20.97	1.870 CC, ES, SF		
4,100.0	4,100.0	4,100.0	4,100.0	10.7	10.8	-169.26	1.1	-39.2	41.8	20.4	21.41	1.952		
4,200.0	4,199.6	4,199.6	4,199.6	10.8	11.0	-170.91	1.1	-39.2	49.5	27.8	21.74	2.278		
4,300.0	4,298.8	4,298.8	4,298.8	11.0	11.3	-172.76	1.1	-39.2	62.4	40.4	22.00	2.838		
4,400.0	4,397.1	4,397.1	4,397.1	11.1	11.5	-174.34	1.1	-39.2	80.6	58.3	22.21	3.628		
4,500.0	4,494.3	4,494.3	4,494.3	11.3	11.8	-175.55	1.1	-39.2	103.8	81.5	22.35	4.646		
4,600.0	4,590.2	4,590.2	4,590.2	11.5	12.1	-176.45	1.1	-39.2	132.1	109.7	22.42	5.894		
4,700.0	4,684.4	4,684.4	4,684.4	11.7	12.3	-177.11	1.1	-39.2	165.5	143.1	22.43	7.379		
4,800.0	4,776.8	4,776.8	4,776.8	11.9	12.5	-177.60	1.1	-39.2	203.7	181.3	22.37	9.108		
4,900.0	4,867.1	4,867.1	4,867.1	12.1	12.8	-177.97	1.1	-39.2	246.7	224.5	22.24	11.096		
5,000.0	4,954.9	4,964.8	4,964.8	12.3	13.0	-178.25	1.4	-38.2	293.5	271.5	22.03	13.322		
5,100.0	5,041.2	5,071.5	5,071.3	12.5	13.2	-178.38	3.3	-31.8	338.7	316.4	22.30	15.184		

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 11-372HN
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 11-372HN	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 #5 (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		
5,200.0	5,127.5	5,184.1	5,183.0	12.8	13.4	-178.33	7.1	-19.0	378.7	356.1	22.66	16.713		
5,300.0	5,213.8	5,302.2	5,299.2	13.1	13.6	-178.14	13.1	1.2	413.2	390.2	23.04	17.938		
5,400.0	5,300.0	5,425.3	5,418.7	13.4	13.8	-177.83	21.6	29.6	441.8	418.4	23.44	18.852		
5,500.0	5,386.3	5,552.6	5,539.9	13.7	14.0	-177.39	32.7	66.6	464.1	440.3	23.85	19.458		
5,600.0	5,472.6	5,683.1	5,661.4	14.0	14.3	-176.83	46.4	112.5	479.9	455.7	24.29	19.758		
5,700.0	5,558.8	5,815.8	5,781.1	14.3	14.6	-176.12	62.8	167.2	489.0	464.3	24.74	19.763		
5,800.0	5,645.1	5,944.2	5,893.0	14.6	14.9	-175.28	80.8	227.5	491.4	466.2	25.21	19.497		
5,864.6	5,700.9	6,008.7	5,948.3	14.9	15.0	-174.82	90.3	259.2	491.4	465.9	25.47	19.290		
5,900.0	5,731.4	6,044.0	5,978.7	15.0	15.1	-174.57	95.5	276.6	491.4	465.8	25.62	19.177		
6,000.0	5,817.7	6,143.8	6,064.3	15.3	15.4	-173.87	110.1	325.6	491.5	465.4	26.06	18.863		
6,100.0	5,903.9	6,243.7	6,150.0	15.7	15.6	-173.16	124.8	374.7	491.6	465.1	26.50	18.553		
6,200.0	5,990.2	6,343.5	6,235.7	16.1	15.9	-172.46	139.5	423.7	491.8	464.9	26.95	18.249		
6,300.0	6,076.5	6,443.3	6,321.4	16.4	16.2	-171.76	154.1	472.8	492.1	464.7	27.42	17.950		
6,400.0	6,162.7	6,543.1	6,407.1	16.8	16.5	-171.06	168.8	521.9	492.5	464.6	27.89	17.656		
6,500.0	6,249.0	6,642.9	6,492.7	17.2	16.8	-170.36	183.5	570.9	492.9	464.5	28.38	17.367		
6,600.0	6,335.3	6,742.7	6,578.4	17.6	17.2	-169.66	198.1	620.0	493.4	464.5	28.88	17.084		
6,700.0	6,421.6	6,842.6	6,664.1	18.0	17.5	-168.96	212.8	669.1	494.0	464.6	29.39	16.807		
6,800.0	6,507.8	6,945.3	6,752.6	18.4	17.8	-168.55	225.3	719.7	494.5	464.6	29.90	16.538		
6,900.0	6,594.1	7,048.3	6,841.4	18.8	18.1	-170.53	217.1	770.7	494.3	464.0	30.26	16.331		
6,912.6	6,604.9	7,060.5	6,851.8	18.9	18.2	-170.94	214.6	776.6	494.3	464.0	30.30	16.312		
7,000.0	6,680.4	7,139.1	6,916.5	19.2	18.3	-174.48	190.4	813.8	495.4	464.8	30.53	16.225		
7,100.0	6,766.8	7,215.3	6,974.8	19.6	18.4	168.44	154.6	847.3	501.4	470.3	31.03	16.159		
7,200.0	6,852.2	7,285.9	7,023.2	20.0	18.5	142.62	111.7	875.2	511.7	479.7	31.99	15.994		
7,300.0	6,932.6	7,350.0	7,061.6	20.3	18.6	123.16	65.4	897.3	524.3	491.3	32.97	15.901		
7,400.0	7,003.7	7,418.8	7,095.8	20.5	18.6	109.57	9.1	917.0	537.0	503.4	33.63	15.966		
7,500.0	7,062.1	7,482.8	7,120.4	20.7	18.7	100.66	-48.1	931.3	548.4	514.6	33.81	16.223		
7,600.0	7,104.5	7,550.0	7,138.2	20.8	18.7	95.00	-112.0	941.7	557.2	523.6	33.60	16.583		
7,700.0	7,129.0	7,608.3	7,146.7	20.9	18.8	92.11	-169.4	946.7	562.4	529.1	33.27	16.906		
7,800.0	7,134.6	7,678.4	7,148.5	21.0	18.8	91.42	-239.5	947.9	563.7	530.6	33.07	17.047		
7,900.0	7,134.0	7,778.4	7,147.7	21.1	18.9	91.40	-339.5	947.8	563.7	530.5	33.16	16.998		
8,000.0	7,133.5	7,878.4	7,147.0	21.2	19.0	91.37	-439.5	947.6	563.7	530.4	33.36	16.899		
8,100.0	7,132.9	7,978.4	7,146.2	21.4	19.2	91.35	-539.4	947.4	563.7	530.1	33.65	16.751		
8,200.0	7,132.3	8,078.4	7,145.4	21.6	19.4	91.33	-639.4	947.2	563.7	529.7	34.04	16.558		
8,300.0	7,131.8	8,178.4	7,144.6	21.8	19.6	91.30	-739.4	947.1	563.7	529.2	34.53	16.326		
8,400.0	7,131.2	8,278.4	7,143.8	22.1	19.9	91.28	-839.4	946.9	563.7	528.6	35.11	16.059		
8,500.0	7,130.6	8,378.4	7,143.0	22.4	20.2	91.26	-939.4	946.7	563.7	528.0	35.77	15.762		
8,600.0	7,130.1	8,478.4	7,142.2	22.8	20.5	91.24	-1,039.4	946.6	563.8	527.2	36.51	15.442		
8,700.0	7,129.5	8,578.4	7,141.4	23.1	20.9	91.21	-1,139.4	946.4	563.8	526.4	37.33	15.104		
8,800.0	7,129.0	8,678.4	7,140.7	23.5	21.3	91.19	-1,239.4	946.2	563.8	525.5	38.21	14.753		
8,900.0	7,128.4	8,778.4	7,139.9	23.9	21.7	91.17	-1,339.4	946.0	563.8	524.6	39.17	14.393		
9,000.0	7,127.8	8,878.4	7,139.1	24.4	22.1	91.14	-1,439.4	945.9	563.8	523.6	40.19	14.029		
9,100.0	7,127.3	8,978.4	7,138.3	24.8	22.6	91.12	-1,539.4	945.7	563.8	522.5	41.26	13.664		
9,200.0	7,126.7	9,078.4	7,137.5	25.3	23.1	91.10	-1,639.4	945.5	563.8	521.4	42.39	13.301		
9,300.0	7,126.1	9,178.4	7,136.7	25.8	23.6	91.08	-1,739.4	945.4	563.8	520.2	43.56	12.942		
9,400.0	7,125.6	9,278.4	7,135.9	26.4	24.2	91.05	-1,839.4	945.2	563.8	519.0	44.78	12.590		
9,500.0	7,125.0	9,378.4	7,135.1	26.9	24.8	91.03	-1,939.4	945.0	563.8	517.8	46.05	12.245		
9,600.0	7,124.4	9,478.4	7,134.4	27.5	25.3	91.01	-2,039.4	944.8	563.8	516.5	47.34	11.909		
9,700.0	7,123.9	9,578.4	7,133.6	28.1	26.0	90.98	-2,139.4	944.7	563.8	515.1	48.68	11.582		
9,800.0	7,123.3	9,678.4	7,132.8	28.7	26.6	90.96	-2,239.4	944.5	563.8	513.8	50.05	11.266		
9,900.0	7,122.8	9,778.4	7,132.0	29.3	27.2	90.94	-2,339.4	944.3	563.8	512.4	51.44	10.961		
10,000.0	7,122.2	9,878.4	7,131.2	29.9	27.9	90.92	-2,439.4	944.2	563.9	511.0	52.87	10.666		
10,100.0	7,121.6	9,978.4	7,130.4	30.6	28.6	90.89	-2,539.4	944.0	563.9	509.5	54.31	10.381		

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

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	
10,200.0	7,121.1	10,078.4	7,129.6	31.2	29.3	90.87	-2,639.4	943.8	563.9	508.1	55.79	10.108	
10,300.0	7,120.5	10,178.4	7,128.8	31.9	30.0	90.85	-2,739.4	943.6	563.9	506.6	57.28	9.844	
10,400.0	7,119.9	10,278.4	7,128.1	32.6	30.7	90.82	-2,839.4	943.5	563.9	505.1	58.79	9.591	
10,500.0	7,119.4	10,378.4	7,127.3	33.3	31.4	90.80	-2,939.4	943.3	563.9	503.6	60.32	9.348	
10,600.0	7,118.8	10,478.4	7,126.5	34.0	32.1	90.78	-3,039.4	943.1	563.9	502.0	61.87	9.114	
10,700.0	7,118.3	10,578.4	7,125.7	34.7	32.9	90.76	-3,139.4	943.0	563.9	500.5	63.44	8.890	
10,800.0	7,117.7	10,678.4	7,124.9	35.4	33.6	90.73	-3,239.4	942.8	563.9	498.9	65.01	8.674	
10,900.0	7,117.1	10,778.4	7,124.1	36.2	34.4	90.71	-3,339.4	942.6	563.9	497.3	66.60	8.467	
11,000.0	7,116.6	10,878.4	7,123.3	36.9	35.2	90.69	-3,439.3	942.5	563.9	495.7	68.21	8.268	
11,100.0	7,116.0	10,978.4	7,122.5	37.7	35.9	90.66	-3,539.3	942.3	563.9	494.1	69.83	8.076	
11,200.0	7,115.4	11,078.4	7,121.8	38.4	36.7	90.64	-3,639.3	942.1	563.9	492.5	71.45	7.893	
11,300.0	7,114.9	11,178.4	7,121.0	39.2	37.5	90.62	-3,739.3	941.9	564.0	490.9	73.09	7.716	
11,400.0	7,114.3	11,278.4	7,120.2	40.0	38.3	90.60	-3,839.3	941.8	564.0	489.2	74.74	7.546	
11,500.0	7,113.7	11,378.4	7,119.4	40.8	39.1	90.57	-3,939.3	941.6	564.0	487.6	76.39	7.383	
11,600.0	7,113.2	11,478.4	7,118.6	41.5	39.9	90.55	-4,039.3	941.4	564.0	485.9	78.05	7.226	
11,700.0	7,112.6	11,578.4	7,117.8	42.3	40.7	90.53	-4,139.3	941.3	564.0	484.3	79.73	7.074	
11,800.0	7,112.1	11,678.4	7,117.0	43.1	41.5	90.50	-4,239.3	941.1	564.0	482.6	81.40	6.928	
11,900.0	7,111.5	11,778.4	7,116.2	43.9	42.4	90.48	-4,339.3	940.9	564.0	480.9	83.09	6.788	
12,000.0	7,110.9	11,878.4	7,115.5	44.7	43.2	90.46	-4,439.3	940.7	564.0	479.2	84.78	6.653	
12,100.0	7,110.4	11,978.4	7,114.7	45.5	44.0	90.44	-4,539.3	940.6	564.0	477.6	86.48	6.522	
12,200.0	7,109.8	12,078.4	7,113.9	46.4	44.8	90.41	-4,639.3	940.4	564.0	475.9	88.18	6.396	
12,219.0	7,109.7	12,097.3	7,113.7	46.5	45.0	90.41	-4,658.3	940.4	564.0	475.5	88.51	6.373	

Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-372HN
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 11-372HN	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 #5 (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	
0.0	0.0	0.0	0.0	0.0	0.0	-89.26	1.0	-79.5	79.5					
100.0	100.0	100.0	100.0	0.1	0.1	-89.26	1.0	-79.5	79.5	79.3	0.25	324.496		
200.0	200.0	200.0	200.0	0.4	0.3	-89.26	1.0	-79.5	79.5	78.8	0.74	108.165		
300.0	300.0	300.0	300.0	0.7	0.6	-89.26	1.0	-79.5	79.5	78.3	1.23	64.899		
400.0	400.0	400.0	400.0	0.9	0.8	-89.26	1.0	-79.5	79.5	77.8	1.72	46.357		
500.0	500.0	500.0	500.0	1.2	1.0	-89.26	1.0	-79.5	79.5	77.3	2.21	36.055		
600.0	600.0	600.0	600.0	1.5	1.2	-89.26	1.0	-79.5	79.5	76.8	2.70	29.500		
700.0	700.0	700.0	700.0	1.7	1.5	-89.26	1.0	-79.5	79.5	76.3	3.19	24.961		
800.0	800.0	800.0	800.0	2.0	1.7	-89.26	1.0	-79.5	79.5	75.9	3.68	21.633		
900.0	900.0	900.0	900.0	2.3	1.9	-88.63	1.9	-79.5	79.6	75.4	4.17	19.091		
1,000.0	1,000.0	999.9	999.8	2.5	2.1	-86.75	4.5	-79.5	79.7	75.0	4.66	17.101		
1,100.0	1,100.0	1,099.7	1,099.5	2.8	2.4	-83.64	8.9	-79.5	80.0	74.9	5.15	15.540		
1,200.0	1,200.0	1,201.7	1,201.4	3.1	2.6	-80.48	13.0	-77.7	78.8	73.2	5.62	14.019		
1,300.0	1,300.0	1,301.6	1,301.2	3.3	2.8	-77.50	16.7	-75.3	77.1	71.0	6.11	12.620		
1,400.0	1,400.0	1,401.5	1,401.0	3.6	3.0	-74.39	20.3	-72.8	75.6	69.0	6.60	11.460		
1,500.0	1,500.0	1,501.4	1,500.9	3.8	3.3	-71.17	24.0	-70.3	74.3	67.2	7.08	10.492		
1,600.0	1,600.0	1,601.3	1,600.7	4.1	3.5	-67.84	27.6	-67.9	73.3	65.7	7.57	9.680		
1,700.0	1,700.0	1,701.2	1,700.5	4.4	3.7	-64.43	31.3	-65.4	72.5	64.5	8.06	8.997		
1,800.0	1,800.0	1,801.1	1,800.3	4.6	3.9	-60.97	35.0	-63.0	72.0	63.5	8.55	8.423		
1,900.0	1,900.0	1,901.0	1,900.1	4.9	4.2	-57.46	38.6	-60.5	71.8	62.7	9.04	7.939		
1,939.5	1,939.5	1,940.4	1,939.5	5.0	4.3	-56.08	40.0	-59.5	71.8	62.5	9.23	7.771 CC		
2,000.0	2,000.0	2,000.9	1,999.9	5.2	4.4	-53.95	42.3	-58.1	71.8	62.3	9.53	7.534		
2,100.0	2,100.0	2,100.8	2,099.7	5.4	4.6	-50.45	45.9	-55.6	72.1	62.1	10.02	7.194 ES		
2,200.0	2,200.0	2,200.7	2,199.5	5.7	4.9	-47.00	49.6	-53.1	72.7	62.2	10.52	6.911		
2,300.0	2,300.0	2,300.6	2,299.3	6.0	5.1	-43.60	53.2	-50.7	73.5	62.5	11.01	6.676		
2,400.0	2,400.0	2,400.5	2,399.1	6.2	5.3	-40.30	56.9	-48.2	74.6	63.1	11.50	6.482		
2,500.0	2,500.0	2,500.4	2,498.9	6.5	5.6	-37.10	60.5	-45.8	75.9	63.9	12.00	6.324		
2,600.0	2,600.0	2,600.3	2,598.7	6.8	5.8	-34.02	64.2	-43.3	77.4	64.9	12.50	6.196		
2,700.0	2,700.0	2,700.2	2,698.5	7.0	6.0	-31.06	67.8	-40.9	79.2	66.2	13.00	6.094		
2,800.0	2,800.0	2,800.1	2,798.3	7.3	6.3	-28.25	71.5	-38.4	81.2	67.7	13.49	6.014		
2,900.0	2,900.0	2,900.0	2,898.1	7.6	6.5	-25.57	75.1	-35.9	83.3	69.3	13.99	5.953		
3,000.0	3,000.0	2,999.9	2,997.9	7.8	6.7	-23.03	78.8	-33.5	85.6	71.1	14.50	5.908		
3,100.0	3,100.0	3,099.8	3,097.7	8.1	7.0	-20.63	82.4	-31.0	88.1	73.1	15.00	5.876		
3,200.0	3,200.0	3,199.7	3,197.6	8.4	7.2	-18.36	86.1	-28.6	90.7	75.3	15.50	5.855		
3,300.0	3,300.0	3,299.6	3,297.4	8.6	7.5	-16.23	89.8	-26.1	93.5	77.5	16.00	5.844		
3,400.0	3,400.0	3,399.5	3,397.2	8.9	7.7	-14.22	93.4	-23.7	96.4	79.9	16.50	5.841 SF		
3,500.0	3,500.0	3,499.4	3,497.0	9.2	7.9	-12.32	97.1	-21.2	99.4	82.4	17.01	5.844		
3,600.0	3,600.0	3,599.3	3,596.8	9.4	8.2	-10.54	100.7	-18.7	102.5	85.0	17.51	5.853		
3,700.0	3,700.0	3,699.3	3,696.6	9.7	8.4	-8.87	104.4	-16.3	105.7	87.7	18.01	5.867		
3,800.0	3,800.0	3,799.2	3,796.4	10.0	8.6	-7.30	108.0	-13.8	109.0	90.4	18.52	5.884		
3,900.0	3,900.0	3,899.1	3,896.2	10.2	8.9	-5.82	111.7	-11.4	112.3	93.3	19.02	5.905		
4,000.0	4,000.0	3,999.0	3,996.0	10.5	9.1	-4.42	115.3	-8.9	115.7	96.2	19.52	5.928		
4,100.0	4,100.0	4,098.9	4,095.8	10.7	9.3	-3.36	119.0	-6.5	118.9	99.1	19.89	5.980		
4,200.0	4,199.6	4,198.7	4,195.6	10.8	9.6	-2.67	122.6	-4.0	121.7	101.5	20.28	6.004		
4,300.0	4,298.8	4,298.2	4,294.9	11.0	9.8	-1.24	126.3	-1.6	124.8	104.1	20.68	6.034		
4,400.0	4,397.1	4,396.9	4,393.6	11.1	10.0	-0.76	129.9	0.9	129.2	108.1	21.08	6.129		
4,500.0	4,494.3	4,494.8	4,491.3	11.3	10.3	-0.70	133.5	3.3	136.6	115.1	21.45	6.367		
4,600.0	4,590.2	4,591.4	4,587.9	11.5	10.5	-0.30	137.0	5.7	148.6	126.9	21.76	6.832		
4,700.0	4,684.4	4,686.6	4,683.0	11.7	10.7	-0.71	140.5	8.0	166.6	144.7	21.95	7.590		
4,800.0	4,776.8	4,780.1	4,776.3	11.9	10.9	-0.32	143.9	10.3	191.2	169.2	22.03	8.679		
4,900.0	4,867.1	4,871.5	4,867.7	12.1	11.2	-0.81	147.2	12.5	222.4	200.5	21.99	10.114		
5,000.0	4,954.9	4,960.8	4,956.9	12.3	11.4	-0.16	150.5	14.7	260.1	238.3	21.87	11.893		

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

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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
5,100.0	5,041.2	5,048.5	5,044.5	12.5	11.6	-147.02	153.7	16.9	302.3	280.3	21.99	13.748		
5,200.0	5,127.5	5,136.3	5,132.2	12.8	11.8	-150.81	156.9	19.1	346.1	323.9	22.21	15.582		
5,300.0	5,213.8	5,224.0	5,219.8	13.1	12.0	-153.78	160.1	21.2	390.8	368.4	22.48	17.389		
5,400.0	5,300.0	5,311.7	5,307.5	13.4	12.2	-156.15	163.3	23.4	436.3	413.5	22.78	19.154		
5,500.0	5,386.3	5,399.4	5,395.1	13.7	12.4	-158.09	166.5	25.5	482.2	459.1	23.10	20.872		
5,600.0	5,472.6	5,487.2	5,482.8	14.0	12.6	-159.69	169.7	27.7	528.5	505.0	23.45	22.538		
5,700.0	5,558.8	5,574.9	5,570.4	14.3	12.8	-161.04	173.0	29.8	575.1	551.3	23.81	24.152		
5,800.0	5,645.1	5,662.6	5,658.1	14.6	13.0	-162.19	176.2	32.0	621.9	597.7	24.18	25.713		
5,900.0	5,731.4	5,750.4	5,745.7	15.0	13.2	-163.18	179.4	34.2	668.8	644.2	24.57	27.221		
6,000.0	5,817.7	5,838.1	5,833.3	15.3	13.5	-164.04	182.6	36.3	715.9	690.9	24.96	28.678		
6,100.0	5,903.9	5,925.8	5,921.0	15.7	13.7	-164.79	185.8	38.5	763.1	737.8	25.37	30.085		
6,200.0	5,990.2	6,013.6	6,008.6	16.1	13.9	-165.46	189.0	40.6	810.4	784.6	25.77	31.443		
6,300.0	6,076.5	6,101.3	6,096.3	16.4	14.1	-166.06	192.2	42.8	857.8	831.6	26.19	32.754		
6,400.0	6,162.7	6,189.0	6,183.9	16.8	14.3	-166.59	195.4	44.9	905.2	878.6	26.61	34.019		
6,500.0	6,249.0	6,276.7	6,271.6	17.2	14.5	-167.07	198.6	47.1	952.7	925.7	27.04	35.240		

Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-372HN
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 11-372HN	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 #5 (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	-89.37	1.1	-99.6	99.6				
100.0	100.0	100.0	100.0	0.1	0.1	-89.37	1.1	-99.6	99.6	99.3	0.27	375.055	
200.0	200.0	200.0	200.0	0.4	0.4	-89.37	1.1	-99.6	99.6	98.8	0.80	125.018	
300.0	300.0	300.0	300.0	0.7	0.7	-89.37	1.1	-99.6	99.6	98.2	1.33	75.011	
400.0	400.0	400.0	400.0	0.9	0.9	-89.37	1.1	-99.6	99.6	97.7	1.86	53.579	
500.0	500.0	500.0	500.0	1.2	1.2	-89.37	1.1	-99.6	99.6	97.2	2.39	41.673	
600.0	600.0	600.0	600.0	1.5	1.5	-89.37	1.1	-99.6	99.6	96.6	2.92	34.096	
700.0	700.0	700.0	700.0	1.7	1.7	-89.37	1.1	-99.6	99.6	96.1	3.45	28.850	
800.0	800.0	800.0	800.0	2.0	2.0	-89.37	1.1	-99.6	99.6	95.6	3.98	25.004	
900.0	900.0	900.0	900.0	2.3	2.3	-89.37	1.1	-99.6	99.6	95.0	4.51	22.062	
1,000.0	1,000.0	1,000.0	1,000.0	2.5	2.5	-89.37	1.1	-99.6	99.6	94.5	5.04	19.740	
1,100.0	1,100.0	1,100.0	1,100.0	2.8	2.8	-89.37	1.1	-99.6	99.6	94.0	5.57	17.860	
1,200.0	1,200.0	1,200.0	1,200.0	3.1	3.1	-89.37	1.1	-99.6	99.6	93.5	6.11	16.307	
1,300.0	1,300.0	1,300.0	1,300.0	3.3	3.3	-89.37	1.1	-99.6	99.6	92.9	6.64	15.002	
1,400.0	1,400.0	1,400.0	1,400.0	3.6	3.6	-89.37	1.1	-99.6	99.6	92.4	7.17	13.891	
1,500.0	1,500.0	1,500.0	1,500.0	3.8	3.8	-89.37	1.1	-99.6	99.6	91.9	7.70	12.933	
1,600.0	1,600.0	1,600.0	1,600.0	4.1	4.1	-89.37	1.1	-99.6	99.6	91.3	8.23	12.099	
1,700.0	1,700.0	1,700.0	1,700.0	4.4	4.4	-89.37	1.1	-99.6	99.6	90.8	8.76	11.365	
1,800.0	1,800.0	1,800.0	1,800.0	4.6	4.6	-89.37	1.1	-99.6	99.6	90.3	9.29	10.716	
1,900.0	1,900.0	1,900.0	1,900.0	4.9	4.9	-89.37	1.1	-99.6	99.6	89.7	9.82	10.137	
2,000.0	2,000.0	2,000.0	2,000.0	5.2	5.2	-89.37	1.1	-99.6	99.6	89.2	10.35	9.617	
2,100.0	2,100.0	2,100.0	2,100.0	5.4	5.4	-89.37	1.1	-99.6	99.6	88.7	10.88	9.148	
2,200.0	2,200.0	2,200.0	2,200.0	5.7	5.7	-89.37	1.1	-99.6	99.6	88.1	11.41	8.722	
2,300.0	2,300.0	2,300.0	2,300.0	6.0	6.0	-89.37	1.1	-99.6	99.6	87.6	11.95	8.335	
2,400.0	2,400.0	2,400.0	2,400.0	6.2	6.2	-89.37	1.1	-99.6	99.6	87.1	12.48	7.980	
2,500.0	2,500.0	2,500.0	2,500.0	6.5	6.5	-89.37	1.1	-99.6	99.6	86.6	13.01	7.654	
2,600.0	2,600.0	2,600.0	2,600.0	6.8	6.8	-89.37	1.1	-99.6	99.6	86.0	13.54	7.354	
2,700.0	2,700.0	2,700.0	2,700.0	7.0	7.0	-89.37	1.1	-99.6	99.6	85.5	14.07	7.077	
2,800.0	2,800.0	2,800.0	2,800.0	7.3	7.3	-89.37	1.1	-99.6	99.6	85.0	14.60	6.819	
2,900.0	2,900.0	2,900.0	2,900.0	7.6	7.6	-89.37	1.1	-99.6	99.6	84.4	15.13	6.580	
3,000.0	3,000.0	3,000.0	3,000.0	7.8	7.8	-89.37	1.1	-99.6	99.6	83.9	15.66	6.357	
3,100.0	3,100.0	3,100.0	3,100.0	8.1	8.1	-89.37	1.1	-99.6	99.6	83.4	16.19	6.148	
3,200.0	3,200.0	3,200.0	3,200.0	8.4	8.4	-89.37	1.1	-99.6	99.6	82.8	16.72	5.953	
3,300.0	3,300.0	3,300.0	3,300.0	8.6	8.6	-89.37	1.1	-99.6	99.6	82.3	17.25	5.770	
3,400.0	3,400.0	3,400.0	3,400.0	8.9	8.9	-89.37	1.1	-99.6	99.6	81.8	17.78	5.598	
3,500.0	3,500.0	3,500.0	3,500.0	9.2	9.2	-89.37	1.1	-99.6	99.6	81.2	18.32	5.436	
3,600.0	3,600.0	3,600.0	3,600.0	9.4	9.4	-89.37	1.1	-99.6	99.6	80.7	18.85	5.282	
3,700.0	3,700.0	3,700.0	3,700.0	9.7	9.7	-89.37	1.1	-99.6	99.6	80.2	19.38	5.138	
3,800.0	3,800.0	3,800.0	3,800.0	10.0	10.0	-89.37	1.1	-99.6	99.6	79.6	19.91	5.001	
3,900.0	3,900.0	3,900.0	3,900.0	10.2	10.2	-89.37	1.1	-99.6	99.6	79.1	20.44	4.871	
4,000.0	4,000.0	4,000.0	4,000.0	10.5	10.5	-89.37	1.1	-99.6	99.6	78.6	20.97	4.748 CC, ES, SF	
4,100.0	4,100.0	4,100.0	4,100.0	10.7	10.8	-169.72	1.1	-99.6	102.1	80.7	21.41	4.770	
4,200.0	4,199.6	4,199.6	4,199.6	10.8	11.0	-170.41	1.1	-99.6	109.9	88.1	21.74	5.054	
4,300.0	4,298.8	4,298.8	4,298.8	11.0	11.3	-171.37	1.1	-99.6	122.7	100.7	22.00	5.579	
4,400.0	4,397.1	4,397.1	4,397.1	11.1	11.5	-172.41	1.1	-99.6	140.8	118.6	22.21	6.340	
4,500.0	4,494.3	4,494.3	4,494.3	11.3	11.8	-173.41	1.1	-99.6	164.0	141.6	22.35	7.336	
4,600.0	4,590.2	4,590.2	4,590.2	11.5	12.1	-174.29	1.1	-99.6	192.2	169.8	22.43	8.571	
4,700.0	4,684.4	4,684.4	4,684.4	11.7	12.3	-175.04	1.1	-99.6	225.5	203.0	22.43	10.051	
4,800.0	4,776.8	4,776.8	4,776.8	11.9	12.5	-175.67	1.1	-99.6	263.6	241.3	22.37	11.784	
4,900.0	4,867.1	4,867.1	4,867.1	12.1	12.8	-176.18	1.1	-99.6	306.6	284.3	22.24	13.784	
5,000.0	4,954.9	4,954.9	4,954.9	12.3	13.0	-176.60	1.1	-99.6	354.2	332.2	22.04	16.069	
5,100.0	5,041.2	5,041.2	5,041.2	12.5	13.2	-177.01	1.1	-99.6	404.7	382.3	22.35	18.110	

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

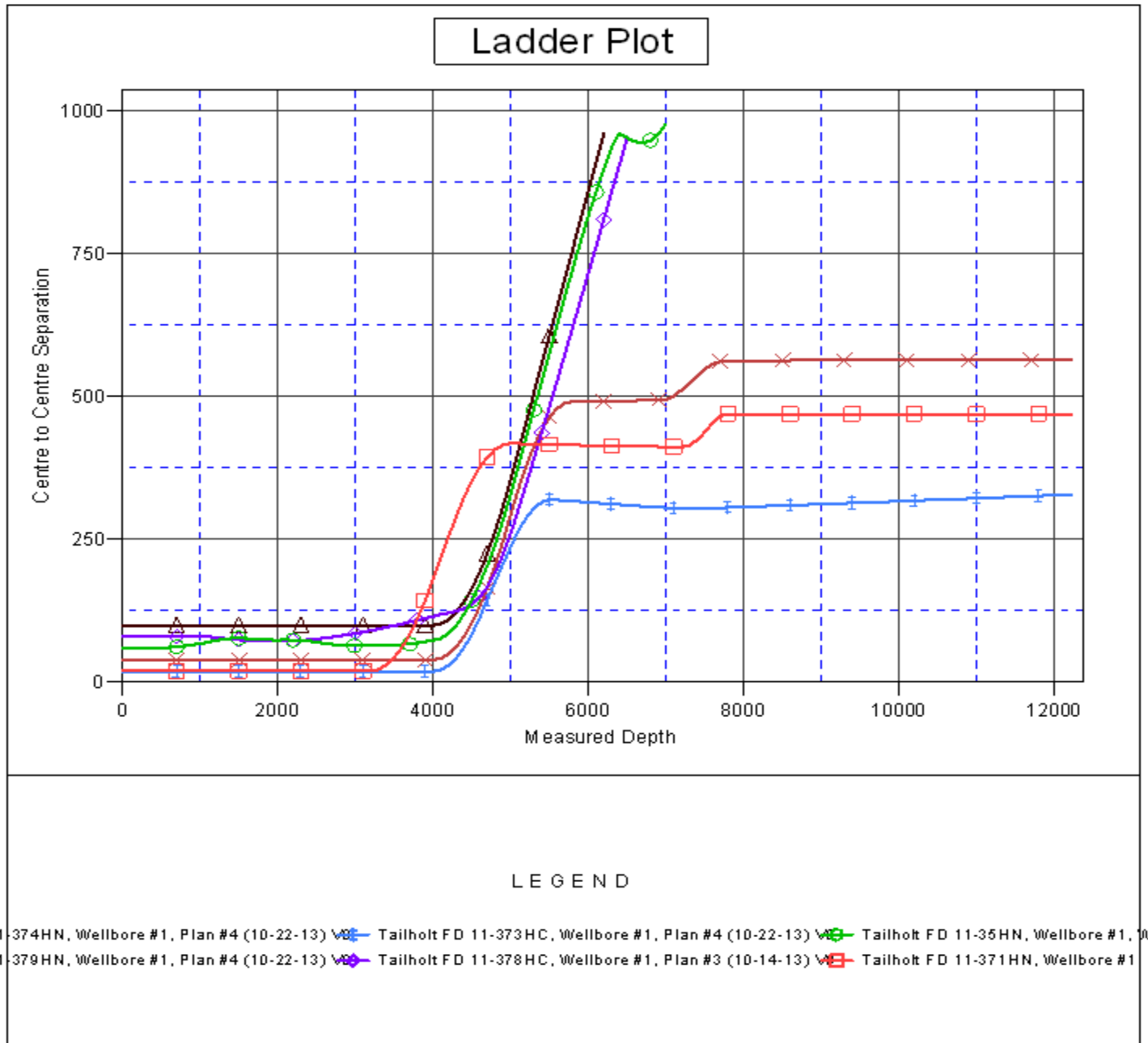
Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-372HN
Project:	SEC.11-T6N-R67W	TVD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Reference Site:	Tailholt FD Horizontal Pad Sec.11-T6N-R67W	MD Reference:	WELL @ 4890.7ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Tailholt FD 11-372HN	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 #5 (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	5,127.5	5,127.5	5,127.5	12.8	13.5	-177.35	1.1	-99.6	455.2	432.5	22.73	20.024	
5,300.0	5,213.8	5,213.8	5,213.8	13.1	13.7	-177.61	1.1	-99.6	505.8	482.6	23.13	21.868	
5,400.0	5,300.0	5,300.0	5,300.0	13.4	13.9	-177.83	1.1	-99.6	556.3	532.8	23.53	23.644	
5,500.0	5,386.3	5,386.3	5,386.3	13.7	14.2	-178.01	1.1	-99.6	606.8	582.9	23.93	25.356	
5,600.0	5,472.6	5,472.6	5,472.6	14.0	14.4	-178.16	1.1	-99.6	657.4	633.0	24.34	27.005	
5,700.0	5,558.8	5,558.8	5,558.8	14.3	14.6	-178.29	1.1	-99.6	707.9	683.2	24.76	28.593	
5,800.0	5,645.1	5,645.1	5,645.1	14.6	14.9	-178.41	1.1	-99.6	758.5	733.3	25.18	30.124	
5,900.0	5,731.4	5,731.4	5,731.4	15.0	15.1	-178.51	1.1	-99.6	809.0	783.4	25.60	31.599	
6,000.0	5,817.7	5,817.7	5,817.7	15.3	15.3	-178.59	1.1	-99.6	859.6	833.6	26.03	33.021	
6,100.0	5,903.9	5,903.9	5,903.9	15.7	15.5	-178.67	1.1	-99.6	910.2	883.7	26.46	34.392	
6,200.0	5,990.2	5,990.2	5,990.2	16.1	15.8	-178.74	1.1	-99.6	960.7	933.8	26.90	35.713	

Company:	Great Western	Local Co-ordinate Reference:	Well Tailholt FD 11-372HN
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 11-372HN	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 #5 (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 11-372HN
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.41°



Reference Depths are relative to WELL @ 4890.7ft (RKB - 16.5')	Coordinates are relative to: Tailholt FD 11-372HN
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: 0.41°



11-374HN, Wellbore #1, Plan #4 (10-22-13)		Tailholt FD 11-373HC, Wellbore #1, Plan #4 (10-22-13)		Tailholt FD 11-35HN, Wellbore #1, Plan #4 (10-22-13)		Tailholt FD 11-375HN, Wellbore #1, Plan #4 (10-22-13)	
11-379HN, Wellbore #1, Plan #4 (10-22-13)		Tailholt FD 11-378HC, Wellbore #1, Plan #3 (10-14-13)		Tailholt FD 11-371HN, Wellbore #1, Plan #4 (10-22-13)		Tailholt FD 11-376HN, Wellbore #1, Plan #4 (10-22-13)	