

# Great Western

Well Name: **Gustafson EF 31-373HC**

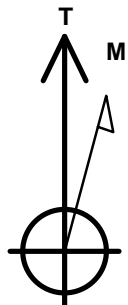
Surface Location: Gustafson Pad Sec.31-T7N-R65W  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4828.2

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1439920.50	3219332.94	40.538303	-104.710858	
RKB - 16.5 WELL @ 4844.7ft (RKB - 16.5)						

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 280'FNL & 1387'FWL	1.0	0.0	0.0	Point
BHL 470'FSL & 2023'FWL	7255.7	-4551.1	626.1	Point
Entry. Pt. 460'FNL & 2035'FWL	7255.7	-198.5	646.8	Point



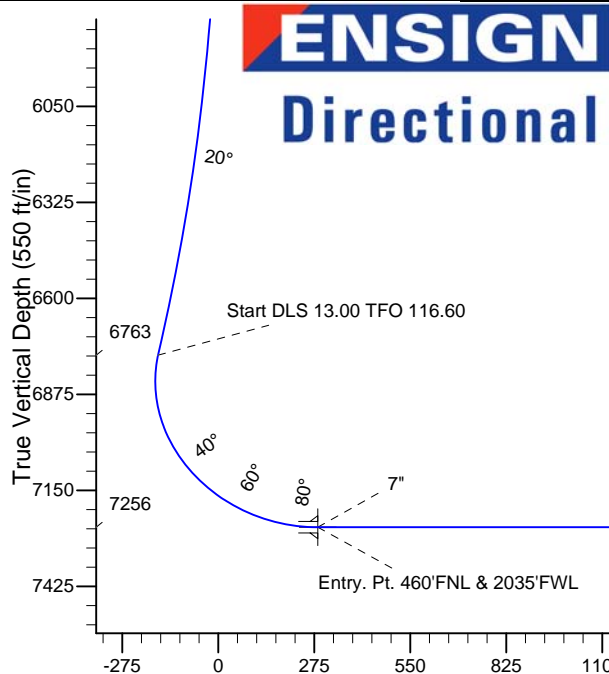
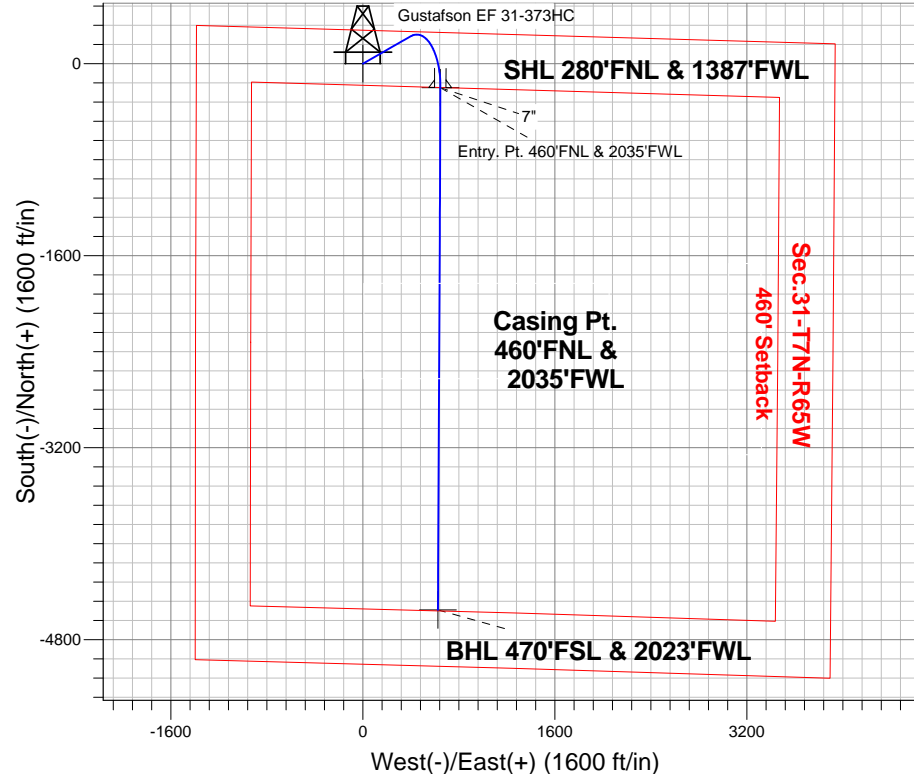
Azimuths to True North  
Magnetic North: 8.51°

Magnetic Field  
Strength: 52945.3snT  
Dip Angle: 67.08°  
Date: 12/16/2013  
Model: IGRF2010

Gustafson Pad Sec.31-T7N-R65W  
Gustafson EF 31-373HC  
Plan #1 (12-16-13)  
13:24, December 18 2013

## ANNOTATIONS

TVD	MD	Annotation
5200.0	5200.0	KOP - Start Build 2.00
6762.8	6851.1	Start DLS 13.00 TFO 116.60
7255.7	12009.1	TD at 12009.1



## 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	5200.0	0.00	0.00	5200.0	0.0	0.0	0.00	0.00	0.0	
3	6718.2	30.36	60.15	6648.2	195.6	340.9	2.00	60.15	-147.3	
4	6851.1	30.36	60.15	6762.8	229.0	399.1	0.00	0.00	-172.5	
5	7656.5	90.00	180.28	7255.7	-198.5	646.8	13.00	116.60	284.8	Entry. Pt. 460'FNL & 2035'FWL
6	7657.2	90.00	180.27	7255.7	-199.2	646.8	1.00	-90.00	285.5	
7	12009.1	90.00	180.27	7255.7	-4551.1	626.1	0.00	0.00	4593.9	BHL 470'FSL & 2023'FWL

Vertical Section at 172.17° (550 ft/in)



## **Great Western**

**SEC.31-T7N-R65W**

**Gustafson Pad Sec.31-T7N-R65W**

**Gustafson EF 31-373HC**

**Wellbore #1**

**Plan: Plan #1 (12-16-13)**

## **Standard Planning Report**

**18 December, 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	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,718.2	30.36	60.15	6,648.2	195.6	340.9	2.00	2.00	0.00	60.15	
6,851.1	30.36	60.15	6,762.8	229.0	399.1	0.00	0.00	0.00	0.00	
7,656.5	90.00	180.28	7,255.7	-198.5	646.8	13.00	7.40	14.92	116.60	Entry. Pt. 460°FNL & 100°
7,657.2	90.00	180.27	7,255.7	-199.2	646.8	1.00	0.00	-1.00	-90.00	
12,009.1	90.00	180.27	7,255.7	-4,551.1	626.1	0.00	0.00	0.00	0.00	BHL 470°FSL & 202°

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Company:</b>	Great Western	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Project:</b>	SEC.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-16-13)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>SHL 280'FNL &amp; 1387'FWL</b>									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00

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<b>Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-16-13)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP - Start Build 2.00</b>									
5,300.0	2.00	60.15	5,300.0	0.9	1.5	-0.7	2.00	2.00	0.00
5,400.0	4.00	60.15	5,399.8	3.5	6.1	-2.6	2.00	2.00	0.00
5,500.0	6.00	60.15	5,499.5	7.8	13.6	-5.9	2.00	2.00	0.00
5,600.0	8.00	60.15	5,598.7	13.9	24.2	-10.4	2.00	2.00	0.00
5,700.0	10.00	60.15	5,697.5	21.7	37.8	-16.3	2.00	2.00	0.00
5,800.0	12.00	60.15	5,795.6	31.2	54.3	-23.5	2.00	2.00	0.00
5,900.0	14.00	60.15	5,893.1	42.3	73.8	-31.9	2.00	2.00	0.00
6,000.0	16.00	60.15	5,989.6	55.2	96.3	-41.6	2.00	2.00	0.00
6,100.0	18.00	60.15	6,085.3	69.8	121.6	-52.6	2.00	2.00	0.00
6,200.0	20.00	60.15	6,179.8	86.0	149.9	-64.8	2.00	2.00	0.00
6,300.0	22.00	60.15	6,273.2	103.8	180.9	-78.2	2.00	2.00	0.00
6,400.0	24.00	60.15	6,365.2	123.3	214.8	-92.8	2.00	2.00	0.00
6,500.0	26.00	60.15	6,455.8	144.3	251.5	-108.7	2.00	2.00	0.00
6,600.0	28.00	60.15	6,544.9	166.9	290.9	-125.7	2.00	2.00	0.00
6,700.0	30.00	60.15	6,632.4	191.0	332.9	-143.9	2.00	2.00	0.00
6,718.2	30.36	60.15	6,648.2	195.6	340.9	-147.3	2.00	2.00	0.00
6,800.0	30.36	60.15	6,718.7	216.1	376.7	-162.8	0.00	0.00	0.00
6,851.1	30.36	60.15	6,762.8	229.0	399.1	-172.5	0.00	0.00	0.00
<b>Start DLS 13.00 TFO 116.60</b>									
6,900.0	28.05	72.31	6,805.5	238.6	420.8	-179.1	12.99	-4.74	24.85
7,000.0	27.24	100.50	6,894.5	241.6	465.9	-175.9	13.00	-0.80	28.19
7,100.0	31.79	125.43	6,981.8	222.1	510.1	-150.5	13.00	4.55	24.94
7,200.0	39.88	142.95	7,063.0	181.1	551.0	-104.3	13.00	8.09	17.52
7,300.0	49.81	154.93	7,134.0	120.6	586.7	-39.6	13.00	9.92	11.98
7,400.0	60.64	163.72	7,191.0	43.9	615.2	40.4	13.00	10.83	8.78
7,500.0	71.94	170.77	7,231.2	-45.3	635.1	131.4	13.00	11.29	7.05
7,600.0	83.45	176.95	7,252.5	-142.2	645.4	228.8	13.00	11.52	6.18
7,656.5	90.00	180.28	7,255.7	-198.5	646.8	284.8	13.00	11.59	5.90
<b>7" - Entry. Pt. 460'FNL &amp; 2035'FWL</b>									
7,657.2	90.00	180.27	7,255.7	-199.2	646.8	285.5	0.90	0.28	-0.86
7,700.0	90.00	180.27	7,255.7	-242.1	646.6	327.9	0.00	0.00	0.00
7,800.0	90.00	180.27	7,255.7	-342.0	646.1	426.9	0.00	0.00	0.00
7,900.0	90.00	180.27	7,255.7	-442.0	645.6	525.9	0.00	0.00	0.00
8,000.0	90.00	180.27	7,255.7	-542.0	645.2	624.9	0.00	0.00	0.00
8,100.0	90.00	180.27	7,255.7	-642.0	644.7	723.9	0.00	0.00	0.00
8,200.0	90.00	180.27	7,255.7	-742.0	644.2	822.9	0.00	0.00	0.00
8,300.0	90.00	180.27	7,255.7	-842.0	643.7	921.9	0.00	0.00	0.00
8,400.0	90.00	180.27	7,255.7	-942.0	643.3	1,020.9	0.00	0.00	0.00
8,500.0	90.00	180.27	7,255.7	-1,042.0	642.8	1,119.9	0.00	0.00	0.00
8,600.0	90.00	180.27	7,255.7	-1,142.0	642.3	1,218.9	0.00	0.00	0.00
8,700.0	90.00	180.27	7,255.7	-1,242.0	641.8	1,317.9	0.00	0.00	0.00
8,800.0	90.00	180.27	7,255.7	-1,342.0	641.3	1,416.9	0.00	0.00	0.00
8,900.0	90.00	180.27	7,255.7	-1,442.0	640.9	1,515.9	0.00	0.00	0.00
9,000.0	90.00	180.27	7,255.7	-1,542.0	640.4	1,614.9	0.00	0.00	0.00
9,100.0	90.00	180.27	7,255.7	-1,642.0	639.9	1,713.9	0.00	0.00	0.00
9,200.0	90.00	180.27	7,255.7	-1,742.0	639.4	1,812.9	0.00	0.00	0.00
9,300.0	90.00	180.27	7,255.7	-1,842.0	639.0	1,911.9	0.00	0.00	0.00
9,400.0	90.00	180.27	7,255.7	-1,942.0	638.5	2,010.9	0.00	0.00	0.00
9,500.0	90.00	180.27	7,255.7	-2,042.0	638.0	2,109.9	0.00	0.00	0.00
9,600.0	90.00	180.27	7,255.7	-2,142.0	637.5	2,208.9	0.00	0.00	0.00
9,700.0	90.00	180.27	7,255.7	-2,242.0	637.1	2,307.9	0.00	0.00	0.00

Planned Survey		BHL 470'FSL & 2023'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)	
9,800.0	90.00	180.27	7,255.7	-2,342.0	636.6	2,406.9	0.00	0.00	0.00	
9,900.0	90.00	180.27	7,255.7	-2,442.0	636.1	2,505.9	0.00	0.00	0.00	
10,000.0	90.00	180.27	7,255.7	-2,542.0	635.6	2,604.9	0.00	0.00	0.00	
10,100.0	90.00	180.27	7,255.7	-2,642.0	635.2	2,703.9	0.00	0.00	0.00	
10,200.0	90.00	180.27	7,255.7	-2,742.0	634.7	2,802.9	0.00	0.00	0.00	
10,300.0	90.00	180.27	7,255.7	-2,842.0	634.2	2,901.9	0.00	0.00	0.00	
10,400.0	90.00	180.27	7,255.7	-2,942.0	633.7	3,000.9	0.00	0.00	0.00	
10,500.0	90.00	180.27	7,255.7	-3,042.0	633.3	3,099.9	0.00	0.00	0.00	
10,600.0	90.00	180.27	7,255.7	-3,142.0	632.8	3,198.9	0.00	0.00	0.00	
10,700.0	90.00	180.27	7,255.7	-3,242.0	632.3	3,297.9	0.00	0.00	0.00	
10,800.0	90.00	180.27	7,255.7	-3,342.0	631.8	3,396.9	0.00	0.00	0.00	
10,900.0	90.00	180.27	7,255.7	-3,442.0	631.3	3,495.9	0.00	0.00	0.00	
11,000.0	90.00	180.27	7,255.7	-3,542.0	630.9	3,594.9	0.00	0.00	0.00	
11,100.0	90.00	180.27	7,255.7	-3,642.0	630.4	3,693.9	0.00	0.00	0.00	
11,200.0	90.00	180.27	7,255.7	-3,742.0	629.9	3,792.9	0.00	0.00	0.00	
11,300.0	90.00	180.27	7,255.7	-3,842.0	629.4	3,891.9	0.00	0.00	0.00	
11,400.0	90.00	180.27	7,255.7	-3,942.0	629.0	3,990.9	0.00	0.00	0.00	
11,500.0	90.00	180.27	7,255.7	-4,042.0	628.5	4,089.9	0.00	0.00	0.00	
11,600.0	90.00	180.27	7,255.7	-4,142.0	628.0	4,188.9	0.00	0.00	0.00	
11,700.0	90.00	180.27	7,255.7	-4,242.0	627.5	4,287.9	0.00	0.00	0.00	
11,800.0	90.00	180.27	7,255.7	-4,342.0	627.1	4,387.0	0.00	0.00	0.00	
11,900.0	90.00	180.27	7,255.7	-4,442.0	626.6	4,486.0	0.00	0.00	0.00	
12,000.0	90.00	180.27	7,255.7	-4,542.0	626.1	4,585.0	0.00	0.00	0.00	
12,009.1	90.00	180.27	7,255.7	-4,551.1	626.1	4,593.9	0.00	0.00	0.00	
BHL 470'FSL & 2023'FWL										

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
5,200.0	5,200.0	0.0	0.0	KOP - Start Build 2.00	
6,851.1	6,762.8	229.0	399.1	Start DLS 13.00 TFO 116.60	
12,009.1	7,255.7	-4,551.1	626.1	TD at 12009.1	



## **Great Western**

**SEC.31-T7N-R65W**

**Gustafson Pad Sec.31-T7N-R65W**

**Gustafson EF 31-373HC**

**Wellbore #1**

**Plan #1 (12-16-13)**

## **Anticollision Report**

**18 December, 2013**





<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Gustafson Pad Sec.31-T7N-R65W - Gustafson EF 31-372HN - Wellbore #1 - Plan #1 (12-16-13)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	92.09	-1.1	30.0	30.0	20.8	9.22	3.260		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	92.09	-1.1	30.0	30.0	20.4	9.66	3.108		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	92.09	-1.1	30.0	30.0	19.9	10.11	2.970		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	92.09	-1.1	30.0	30.0	19.5	10.56	2.843		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	92.09	-1.1	30.0	30.0	19.0	11.01	2.727		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	92.09	-1.1	30.0	30.0	18.6	11.46	2.620		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	92.09	-1.1	30.0	30.0	18.1	11.91	2.522		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	92.09	-1.1	30.0	30.0	17.7	12.36	2.430		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	92.09	-1.1	30.0	30.0	17.2	12.81	2.345		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	92.09	-1.1	30.0	30.0	16.8	13.26	2.265		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	92.09	-1.1	30.0	30.0	16.3	13.71	2.191		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	92.09	-1.1	30.0	30.0	15.9	14.16	2.121		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	92.09	-1.1	30.0	30.0	15.4	14.61	2.056		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	92.09	-1.1	30.0	30.0	15.0	15.06	1.995		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	92.09	-1.1	30.0	30.0	14.5	15.51	1.937		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	92.09	-1.1	30.0	30.0	14.1	15.96	1.882		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	92.09	-1.1	30.0	30.0	13.6	16.41	1.831		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	92.09	-1.1	30.0	30.0	13.2	16.86	1.782		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	92.09	-1.1	30.0	30.0	12.7	17.31	1.736		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	92.09	-1.1	30.0	30.0	12.3	17.76	1.692		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	92.09	-1.1	30.0	30.0	11.8	18.21	1.650		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	92.09	-1.1	30.0	30.0	11.4	18.66	1.610		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	92.09	-1.1	30.0	30.0	10.9	19.11	1.572		
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	92.09	-1.1	30.0	30.0	10.5	19.55	1.536		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	92.09	-1.1	30.0	30.0	10.0	20.00	1.502		
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	92.09	-1.1	30.0	30.0	9.6	20.45	1.469 Level 3		
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	92.09	-1.1	30.0	30.0	9.1	20.90	1.437 Level 3		
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	92.09	-1.1	30.0	30.0	8.7	21.35	1.407 Level 3		
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	92.09	-1.1	30.0	30.0	8.2	21.80	1.378 Level 3, CC, ES, SF		
5,000.0	5,000.0	4,998.5	4,998.4	11.1	11.1	90.50	-0.3	32.4	32.5	10.2	22.24	1.460 Level 3		
5,100.0	5,100.0	5,096.4	5,096.1	11.4	11.3	86.92	2.1	39.6	39.8	17.2	22.67	1.757		
5,200.0	5,200.0	5,193.3	5,192.2	11.6	11.5	83.24	6.1	51.3	52.3	29.2	23.10	2.262		
5,300.0	5,300.0	5,289.1	5,286.4	11.8	11.8	20.54	11.5	67.4	68.2	44.7	23.49	2.901		
5,400.0	5,399.8	5,383.7	5,378.6	12.0	12.0	19.22	18.4	87.8	85.7	61.9	23.87	3.592		
5,500.0	5,499.5	5,477.2	5,468.5	12.2	12.2	18.57	26.6	112.1	104.9	80.7	24.21	4.332		
5,600.0	5,598.7	5,569.6	5,555.9	12.4	12.5	18.29	36.0	140.1	125.5	101.0	24.54	5.115		
5,700.0	5,697.5	5,660.7	5,640.7	12.7	12.9	18.23	46.7	171.7	147.6	122.7	24.85	5.939		
5,800.0	5,795.6	5,750.5	5,722.6	12.9	13.2	18.30	58.4	206.5	171.0	145.9	25.14	6.802		
5,900.0	5,893.1	5,839.0	5,801.6	13.2	13.6	18.44	71.2	244.4	195.7	170.3	25.41	7.700		
6,000.0	5,989.6	5,926.7	5,878.0	13.5	14.1	18.63	84.9	285.3	221.6	195.9	25.68	8.629		
6,100.0	6,085.3	6,023.6	5,961.3	13.8	14.7	18.97	100.7	332.1	246.2	220.2	25.95	9.485		
6,200.0	6,179.8	6,121.2	6,045.3	14.1	15.4	19.50	116.6	379.2	267.6	241.4	26.24	10.199		
6,300.0	6,273.2	6,219.4	6,129.9	14.5	16.1	20.19	132.6	426.6	285.9	259.3	26.54	10.771		
6,400.0	6,365.2	6,318.2	6,214.8	14.9	16.9	21.05	148.7	474.3	301.0	274.1	26.87	11.201		
6,500.0	6,455.8	6,417.3	6,300.1	15.4	17.7	22.06	164.8	522.1	313.0	285.7	27.24	11.491		
6,600.0	6,544.9	6,516.6	6,385.6	15.9	18.5	23.26	181.0	570.1	321.8	294.2	27.66	11.637		
6,700.0	6,632.4	6,616.1	6,471.2	16.6	19.4	24.67	197.1	618.1	327.7	299.6	28.15	11.640		
6,800.0	6,718.7	6,715.6	6,556.8	17.2	20.3	26.23	213.3	666.2	331.7	302.7	28.96	11.454		
6,900.0	6,805.5	6,815.2	6,642.5	17.9	21.2	16.97	229.5	714.3	335.8	306.0	29.82	11.262		
7,000.0	6,894.5	6,913.4	6,728.0	18.5	22.0	-7.70	233.1	762.2	340.0	309.6	30.34	11.205		
7,100.0	6,981.8	7,011.9	6,812.2	19.0	22.6	-29.17	214.8	809.3	344.0	313.4	30.60	11.242		
7,200.0	7,063.0	7,110.7	6,891.2	19.4	23.2	-43.19	175.5	853.3	347.7	317.1	30.66	11.342		

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

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	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
7,300.0	7,134.0	7,209.8	6,960.8	19.7	23.7	-51.59	116.8	891.9	351.0	320.3	30.67	11.443	
7,400.0	7,191.0	7,309.3	7,017.5	20.0	24.1	-56.58	41.6	923.2	353.6	322.7	30.83	11.470	
7,500.0	7,231.2	7,409.2	7,058.2	20.2	24.5	-59.50	-46.7	945.5	355.4	324.1	31.29	11.357	
7,600.0	7,252.5	7,509.6	7,080.6	20.5	24.7	-60.99	-143.6	957.6	356.3	324.2	32.15	11.084	
7,700.0	7,255.7	7,610.0	7,084.7	20.8	25.0	-61.33	-243.8	959.3	356.4	323.2	33.25	10.719	
7,800.0	7,255.7	7,710.0	7,084.7	21.3	25.3	-61.32	-343.8	958.8	356.4	321.8	34.59	10.302	
7,900.0	7,255.7	7,810.0	7,084.7	21.9	25.8	-61.32	-443.8	958.2	356.3	320.1	36.21	9.840	
8,000.0	7,255.7	7,910.0	7,084.7	22.7	26.3	-61.31	-543.8	957.7	356.2	318.2	38.07	9.357	
8,100.0	7,255.7	8,010.0	7,084.7	23.7	27.1	-61.31	-643.8	957.1	356.2	316.0	40.14	8.872	
8,200.0	7,255.7	8,110.0	7,084.7	24.7	27.9	-61.30	-743.7	956.6	356.1	313.7	42.39	8.400	
8,300.0	7,255.7	8,210.0	7,084.7	25.9	28.9	-61.30	-843.7	956.0	356.0	311.3	44.80	7.948	
8,400.0	7,255.7	8,310.0	7,084.7	27.2	29.9	-61.29	-943.7	955.5	356.0	308.7	47.33	7.522	
8,500.0	7,255.7	8,410.0	7,084.7	28.5	31.1	-61.29	-1,043.7	954.9	355.9	306.0	49.97	7.123	
8,600.0	7,255.7	8,510.0	7,084.7	29.9	32.3	-61.28	-1,143.7	954.4	355.9	303.2	52.70	6.752	
8,700.0	7,255.7	8,610.0	7,084.7	31.4	33.6	-61.28	-1,243.7	953.8	355.8	300.3	55.52	6.409	
8,800.0	7,255.7	8,710.0	7,084.7	32.9	35.0	-61.27	-1,343.7	953.3	355.7	297.3	58.40	6.092	
8,900.0	7,255.7	8,810.0	7,084.7	34.4	36.4	-61.26	-1,443.7	952.8	355.7	294.4	61.33	5.799	
9,000.0	7,255.7	8,910.0	7,084.7	36.0	37.9	-61.26	-1,543.7	952.2	355.6	291.3	64.32	5.529	
9,100.0	7,255.7	9,010.0	7,084.7	37.6	39.4	-61.25	-1,643.7	951.7	355.6	288.2	67.35	5.279	
9,200.0	7,255.7	9,110.0	7,084.7	39.3	40.9	-61.25	-1,743.7	951.1	355.5	285.1	70.42	5.048	
9,300.0	7,255.7	9,210.0	7,084.7	40.9	42.5	-61.24	-1,843.7	950.6	355.4	281.9	73.52	4.835	
9,400.0	7,255.7	9,310.0	7,084.7	42.6	44.1	-61.24	-1,943.7	950.0	355.4	278.7	76.65	4.636	
9,500.0	7,255.7	9,410.0	7,084.7	44.3	45.8	-61.23	-2,043.7	949.5	355.3	275.5	79.81	4.452	
9,600.0	7,255.7	9,510.0	7,084.7	46.1	47.4	-61.23	-2,143.7	948.9	355.3	272.3	82.98	4.281	
9,700.0	7,255.7	9,610.0	7,084.7	47.8	49.1	-61.22	-2,243.7	948.4	355.2	269.0	86.18	4.122	
9,800.0	7,255.7	9,710.0	7,084.7	49.6	50.8	-61.22	-2,343.7	947.8	355.1	265.7	89.40	3.973	
9,900.0	7,255.7	9,810.0	7,084.7	51.3	52.5	-61.21	-2,443.7	947.3	355.1	262.4	92.63	3.833	
10,000.0	7,255.7	9,910.0	7,084.7	53.1	54.3	-61.21	-2,543.7	946.7	355.0	259.1	95.87	3.703	
10,100.0	7,255.7	10,010.0	7,084.7	54.9	56.0	-61.20	-2,643.7	946.2	355.0	255.8	99.13	3.581	
10,200.0	7,255.7	10,110.0	7,084.7	56.7	57.8	-61.19	-2,743.7	945.7	354.9	252.5	102.40	3.466	
10,300.0	7,255.7	10,210.0	7,084.7	58.5	59.5	-61.19	-2,843.7	945.1	354.8	249.2	105.68	3.358	
10,400.0	7,255.7	10,310.0	7,084.7	60.3	61.3	-61.18	-2,943.7	944.6	354.8	245.8	108.97	3.256	
10,500.0	7,255.7	10,410.0	7,084.7	62.1	63.1	-61.18	-3,043.7	944.0	354.7	242.4	112.27	3.159	
10,600.0	7,255.7	10,510.0	7,084.7	64.0	64.9	-61.17	-3,143.7	943.5	354.7	239.1	115.58	3.069	
10,700.0	7,255.7	10,610.0	7,084.7	65.8	66.7	-61.17	-3,243.7	942.9	354.6	235.7	118.89	2.982	
10,800.0	7,255.7	10,710.0	7,084.7	67.6	68.5	-61.16	-3,343.7	942.4	354.5	232.3	122.21	2.901	
10,900.0	7,255.7	10,810.0	7,084.7	69.5	70.3	-61.16	-3,443.7	941.8	354.5	228.9	125.54	2.824	
11,000.0	7,255.7	10,910.0	7,084.7	71.3	72.1	-61.15	-3,543.7	941.3	354.4	225.5	128.87	2.750	
11,100.0	7,255.7	11,010.0	7,084.7	73.2	73.9	-61.15	-3,643.7	940.7	354.3	222.1	132.21	2.680	
11,200.0	7,255.7	11,110.0	7,084.7	75.0	75.8	-61.14	-3,743.7	940.2	354.3	218.7	135.55	2.614	
11,300.0	7,255.7	11,210.0	7,084.7	76.9	77.6	-61.14	-3,843.7	939.7	354.2	215.3	138.89	2.550	
11,400.0	7,255.7	11,310.0	7,084.7	78.7	79.4	-61.13	-3,943.7	939.1	354.2	211.9	142.24	2.490	
11,500.0	7,255.7	11,410.0	7,084.7	80.6	81.3	-61.12	-4,043.7	938.6	354.1	208.5	145.60	2.432	
11,600.0	7,255.7	11,510.0	7,084.7	82.5	83.1	-61.12	-4,143.7	938.0	354.0	205.1	148.95	2.377	
11,700.0	7,255.7	11,610.0	7,084.7	84.3	85.0	-61.11	-4,243.7	937.5	354.0	201.7	152.31	2.324	
11,800.0	7,255.7	11,710.0	7,084.7	86.2	86.8	-61.11	-4,343.7	936.9	353.9	198.2	155.68	2.273	
11,900.0	7,255.7	11,810.0	7,084.7	88.1	88.7	-61.10	-4,443.7	936.4	353.9	194.8	159.04	2.225	
12,000.0	7,255.7	11,910.0	7,084.7	89.9	90.5	-61.10	-4,543.7	935.8	353.8	191.4	162.41	2.178	
12,009.1	7,255.7	11,919.0	7,084.7	90.1	90.7	-61.10	-4,552.8	935.8	353.8	191.1	162.72	2.174	

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	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		
0.0	0.0	0.0	0.0	0.0	0.0	-87.88	1.1	-29.5	29.5					
100.0	100.0	100.0	100.0	0.1	0.1	-87.88	1.1	-29.5	29.5	29.3	0.22	131.172		
200.0	200.0	200.0	200.0	0.3	0.3	-87.88	1.1	-29.5	29.5	28.8	0.67	43.724		
300.0	300.0	300.0	300.0	0.6	0.6	-87.88	1.1	-29.5	29.5	28.4	1.12	26.234		
400.0	400.0	400.0	400.0	0.8	0.8	-87.88	1.1	-29.5	29.5	27.9	1.57	18.739		
500.0	500.0	500.0	500.0	1.0	1.0	-87.88	1.1	-29.5	29.5	27.5	2.02	14.575		
600.0	600.0	600.0	600.0	1.2	1.2	-87.88	1.1	-29.5	29.5	27.0	2.47	11.925		
700.0	700.0	700.0	700.0	1.5	1.5	-87.88	1.1	-29.5	29.5	26.6	2.92	10.090		
800.0	800.0	800.0	800.0	1.7	1.7	-87.88	1.1	-29.5	29.5	26.1	3.37	8.745		
900.0	900.0	900.0	900.0	1.9	1.9	-87.88	1.1	-29.5	29.5	25.7	3.82	7.716		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-87.88	1.1	-29.5	29.5	25.2	4.27	6.904		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-87.88	1.1	-29.5	29.5	24.8	4.72	6.246		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-87.88	1.1	-29.5	29.5	24.3	5.17	5.703		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-87.88	1.1	-29.5	29.5	23.9	5.62	5.247		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-87.88	1.1	-29.5	29.5	23.4	6.07	4.858		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-87.88	1.1	-29.5	29.5	23.0	6.52	4.523		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-87.88	1.1	-29.5	29.5	22.5	6.97	4.231		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-87.88	1.1	-29.5	29.5	22.1	7.42	3.975		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-87.88	1.1	-29.5	29.5	21.6	7.87	3.748		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-87.88	1.1	-29.5	29.5	21.2	8.32	3.545		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-87.88	1.1	-29.5	29.5	20.7	8.77	3.363		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-87.88	1.1	-29.5	29.5	20.3	9.22	3.199		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-87.88	1.1	-29.5	29.5	19.8	9.66	3.051		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-87.88	1.1	-29.5	29.5	19.4	10.11	2.915		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-87.88	1.1	-29.5	29.5	18.9	10.56	2.791		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-87.88	1.1	-29.5	29.5	18.5	11.01	2.677		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-87.88	1.1	-29.5	29.5	18.0	11.46	2.572		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-87.88	1.1	-29.5	29.5	17.6	11.91	2.475		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-87.88	1.1	-29.5	29.5	17.1	12.36	2.385		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-87.88	1.1	-29.5	29.5	16.7	12.81	2.301		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-87.88	1.1	-29.5	29.5	16.2	13.26	2.223		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-87.88	1.1	-29.5	29.5	15.8	13.71	2.150		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-87.88	1.1	-29.5	29.5	15.3	14.16	2.082		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-87.88	1.1	-29.5	29.5	14.9	14.61	2.018		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-87.88	1.1	-29.5	29.5	14.4	15.06	1.958		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-87.88	1.1	-29.5	29.5	14.0	15.51	1.901		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-87.88	1.1	-29.5	29.5	13.5	15.96	1.847		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-87.88	1.1	-29.5	29.5	13.1	16.41	1.797		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-87.88	1.1	-29.5	29.5	12.6	16.86	1.749		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-87.88	1.1	-29.5	29.5	12.2	17.31	1.704		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-87.88	1.1	-29.5	29.5	11.7	17.76	1.660		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-87.88	1.1	-29.5	29.5	11.3	18.21	1.619		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	-87.88	1.1	-29.5	29.5	10.8	18.66	1.580		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	-87.88	1.1	-29.5	29.5	10.4	19.11	1.543		
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	-87.88	1.1	-29.5	29.5	9.9	19.55	1.508		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	-87.88	1.1	-29.5	29.5	9.5	20.00	1.474 Level 3		
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	-87.88	1.1	-29.5	29.5	9.0	20.45	1.441 Level 3		
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	-87.88	1.1	-29.5	29.5	8.6	20.90	1.410 Level 3		
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	-87.88	1.1	-29.5	29.5	8.1	21.35	1.381 Level 3		
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	-87.88	1.1	-29.5	29.5	7.7	21.80	1.352 Level 3		
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	-87.88	1.1	-29.5	29.5	7.2	22.25	1.325 Level 3		
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	-87.88	1.1	-29.5	29.5	6.8	22.70	1.299 Level 3		

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

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	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		
5,200.0	5,200.0	5,200.0	5,200.0	11.6	11.6	-87.88	1.1	-29.5	29.5	6.3	23.15	1.274	Level 3, CC, ES, SF	
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	-149.72	1.1	-29.5	31.0	7.4	23.58	1.314	Level 3	
5,400.0	5,399.8	5,399.8	5,399.8	12.0	12.0	-153.93	1.1	-29.5	35.6	11.6	23.99	1.484	Level 3	
5,500.0	5,499.5	5,499.5	5,499.5	12.2	12.2	-158.91	1.1	-29.5	43.6	19.2	24.36	1.789		
5,600.0	5,598.7	5,600.3	5,600.3	12.4	12.5	-162.49	2.2	-28.6	54.1	29.3	24.72	2.187		
5,700.0	5,697.5	5,702.2	5,702.0	12.7	12.7	-162.87	7.6	-24.5	64.0	39.0	25.04	2.557		
5,800.0	5,795.6	5,804.6	5,803.6	12.9	12.9	-161.20	17.2	-17.2	73.3	47.9	25.35	2.890		
5,900.0	5,893.1	5,907.2	5,904.7	13.2	13.2	-158.14	31.3	-6.5	81.9	56.3	25.66	3.192		
6,000.0	5,989.6	6,009.9	6,004.7	13.5	13.4	-154.05	49.6	7.4	90.3	64.3	26.00	3.473		
6,100.0	6,085.3	6,112.4	6,103.3	13.8	13.7	-149.16	72.2	24.6	98.7	72.4	26.39	3.742		
6,200.0	6,179.8	6,214.7	6,199.9	14.1	14.0	-143.69	98.9	44.8	107.7	80.8	26.87	4.009		
6,300.0	6,273.2	6,316.5	6,294.1	14.5	14.3	-137.86	129.5	68.1	117.6	90.1	27.50	4.278		
6,400.0	6,365.2	6,417.7	6,385.7	14.9	14.7	-131.88	163.9	94.2	129.0	100.7	28.31	4.556		
6,500.0	6,455.8	6,518.2	6,474.1	15.4	15.1	-125.94	201.8	122.9	142.0	112.7	29.31	4.846		
6,600.0	6,544.9	6,630.3	6,573.5	15.9	15.6	-122.80	239.7	157.7	154.4	124.1	30.32	5.094		
6,700.0	6,632.4	6,746.5	6,682.4	16.6	16.0	-130.38	250.9	195.7	157.8	127.4	30.45	5.184		
6,800.0	6,718.7	6,846.9	6,776.0	17.2	16.3	-145.26	236.1	228.3	160.4	130.8	29.55	5.427		
6,900.0	6,805.5	6,928.2	6,848.0	17.9	16.4	-172.72	207.9	253.2	175.6	147.0	28.59	6.141		
7,000.0	6,894.5	7,000.0	6,906.4	18.5	16.5	147.41	171.7	273.5	205.1	175.7	29.35	6.987		
7,100.0	6,981.8	7,071.4	6,958.4	19.0	16.6	114.15	126.3	291.4	239.9	209.0	30.88	7.768		
7,200.0	7,063.0	7,138.3	7,000.2	19.4	16.6	91.96	76.1	305.8	274.0	242.3	31.76	8.628		
7,300.0	7,134.0	7,200.0	7,032.1	19.7	16.7	78.08	24.5	316.6	304.2	272.5	31.66	9.607		
7,400.0	7,191.0	7,267.4	7,058.7	20.0	16.8	69.32	-36.7	325.7	328.4	297.5	30.90	10.625		
7,500.0	7,231.2	7,330.5	7,075.4	20.2	17.0	64.21	-97.3	331.2	345.5	315.5	29.93	11.541		
7,600.0	7,252.5	7,393.2	7,083.7	20.5	17.2	61.74	-159.3	333.9	354.8	325.5	29.26	12.123		
7,700.0	7,255.7	7,474.7	7,084.7	20.8	17.6	61.33	-240.8	333.9	356.4	326.9	29.52	12.073		
7,800.0	7,255.7	7,574.7	7,084.7	21.3	18.3	61.32	-340.8	333.5	356.3	325.6	30.69	11.612		
7,900.0	7,255.7	7,674.7	7,084.7	21.9	19.1	61.32	-440.8	333.1	356.3	324.1	32.19	11.068		
8,000.0	7,255.7	7,774.7	7,084.7	22.7	20.1	61.31	-540.8	332.7	356.2	322.2	33.97	10.485		
8,100.0	7,255.7	7,874.7	7,084.7	23.7	21.2	61.30	-640.8	332.3	356.1	320.1	36.00	9.892		
8,200.0	7,255.7	7,974.7	7,084.7	24.7	22.4	61.30	-740.8	331.9	356.1	317.8	38.23	9.314		
8,300.0	7,255.7	8,074.7	7,084.7	25.9	23.8	61.29	-840.8	331.5	356.0	315.4	40.63	8.762		
8,400.0	7,255.7	8,174.7	7,084.7	27.2	25.1	61.29	-940.8	331.1	355.9	312.8	43.17	8.245		
8,500.0	7,255.7	8,274.7	7,084.7	28.5	26.6	61.28	-1,040.8	330.7	355.9	310.0	45.83	7.765		
8,600.0	7,255.7	8,374.7	7,084.7	29.9	28.1	61.28	-1,140.8	330.3	355.8	307.2	48.59	7.323		
8,700.0	7,255.7	8,474.7	7,084.7	31.4	29.7	61.27	-1,240.8	329.9	355.7	304.3	51.42	6.918		
8,800.0	7,255.7	8,574.7	7,084.7	32.9	31.3	61.26	-1,340.8	329.5	355.7	301.3	54.33	6.546		
8,900.0	7,255.7	8,674.7	7,084.7	34.4	32.9	61.26	-1,440.8	329.1	355.6	298.3	57.30	6.206		
9,000.0	7,255.7	8,774.7	7,084.7	36.0	34.6	61.25	-1,540.8	328.7	355.5	295.2	60.32	5.895		
9,100.0	7,255.7	8,874.7	7,084.7	37.6	36.3	61.25	-1,640.8	328.3	355.5	292.1	63.38	5.609		
9,200.0	7,255.7	8,974.7	7,084.7	39.3	38.0	61.24	-1,740.8	327.9	355.4	288.9	66.47	5.347		
9,300.0	7,255.7	9,074.7	7,084.7	40.9	39.7	61.23	-1,840.8	327.5	355.3	285.7	69.60	5.105		
9,400.0	7,255.7	9,174.7	7,084.7	42.6	41.5	61.23	-1,940.8	327.1	355.3	282.5	72.76	4.883		
9,500.0	7,255.7	9,274.7	7,084.7	44.3	43.2	61.22	-2,040.8	326.7	355.2	279.3	75.94	4.678		
9,600.0	7,255.7	9,374.7	7,084.7	46.1	45.0	61.22	-2,140.8	326.3	355.1	276.0	79.14	4.487		
9,700.0	7,255.7	9,474.7	7,084.7	47.8	46.8	61.21	-2,240.8	325.9	355.1	272.7	82.36	4.311		
9,800.0	7,255.7	9,574.7	7,084.7	49.6	48.6	61.20	-2,340.8	325.5	355.0	269.4	85.60	4.147		
9,900.0	7,255.7	9,674.7	7,084.7	51.3	50.4	61.20	-2,440.8	325.1	354.9	266.1	88.85	3.995		
10,000.0	7,255.7	9,774.7	7,084.7	53.1	52.2	61.19	-2,540.8	324.7	354.9	262.8	92.12	3.852		
10,100.0	7,255.7	9,874.7	7,084.7	54.9	54.0	61.19	-2,640.8	324.3	354.8	259.4	95.39	3.719		
10,200.0	7,255.7	9,974.7	7,084.7	56.7	55.9	61.18	-2,740.8	323.9	354.7	256.1	98.68	3.595		
10,300.0	7,255.7	10,074.7	7,084.7	58.5	57.7	61.18	-2,840.8	323.5	354.7	252.7	101.98	3.478		

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

Gustafson Pad Sec.31-T7N-R65W - Gustafson EF 31-374HN - Wellbore #1 - Plan #1 (12-16-13)													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	
10,400.0	7,255.7	10,174.7	7,084.7	60.3	59.6	61.17	-2,940.8	323.1	354.6	249.3	105.28	3.368		
10,500.0	7,255.7	10,274.7	7,084.7	62.1	61.4	61.16	-3,040.8	322.7	354.5	246.0	108.60	3.265		
10,600.0	7,255.7	10,374.7	7,084.7	64.0	63.3	61.16	-3,140.8	322.3	354.5	242.6	111.92	3.167		
10,700.0	7,255.7	10,474.7	7,084.7	65.8	65.1	61.15	-3,240.8	321.9	354.4	239.2	115.24	3.075		
10,800.0	7,255.7	10,574.7	7,084.7	67.6	67.0	61.15	-3,340.8	321.5	354.3	235.8	118.58	2.988		
10,900.0	7,255.7	10,674.7	7,084.7	69.5	68.8	61.14	-3,440.8	321.1	354.3	232.4	121.91	2.906		
11,000.0	7,255.7	10,774.7	7,084.7	71.3	70.7	61.13	-3,540.8	320.7	354.2	229.0	125.26	2.828		
11,100.0	7,255.7	10,874.7	7,084.7	73.2	72.6	61.13	-3,640.8	320.3	354.2	225.5	128.60	2.754		
11,200.0	7,255.7	10,974.7	7,084.7	75.0	74.4	61.12	-3,740.8	319.9	354.1	222.1	131.96	2.683		
11,300.0	7,255.7	11,074.7	7,084.7	76.9	76.3	61.12	-3,840.8	319.5	354.0	218.7	135.31	2.616		
11,400.0	7,255.7	11,174.7	7,084.7	78.7	78.2	61.11	-3,940.8	319.1	354.0	215.3	138.67	2.553		
11,500.0	7,255.7	11,274.7	7,084.7	80.6	80.1	61.10	-4,040.8	318.7	353.9	211.9	142.03	2.492		
11,600.0	7,255.7	11,374.7	7,084.7	82.5	81.9	61.10	-4,140.8	318.3	353.8	208.4	145.40	2.434		
11,700.0	7,255.7	11,474.7	7,084.7	84.3	83.8	61.09	-4,240.8	317.9	353.8	205.0	148.76	2.378		
11,800.0	7,255.7	11,574.7	7,084.7	86.2	85.7	61.09	-4,340.8	317.5	353.7	201.6	152.13	2.325		
11,900.0	7,255.7	11,674.7	7,084.7	88.1	87.6	61.08	-4,440.8	317.1	353.6	198.1	155.51	2.274		
12,000.0	7,255.7	11,774.7	7,084.7	89.9	89.2	61.08	-4,540.8	316.7	353.6	194.9	158.62	2.229		
12,001.4	7,255.7	11,775.9	7,084.7	90.0	89.2	61.08	-4,542.0	316.7	353.6	194.9	158.66	2.228		
12,009.1	7,255.7	11,775.9	7,084.7	90.1	89.2	61.08	-4,542.0	316.7	353.6	194.8	158.79	2.227		

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	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		
0.0	0.0	0.0	0.0	0.0	0.0	-88.26	1.8	-59.5	59.5					
100.0	100.0	100.0	100.0	0.1	0.1	-88.26	1.8	-59.5	59.5	59.3	0.22	264.760		
200.0	200.0	200.0	200.0	0.3	0.3	-88.26	1.8	-59.5	59.5	58.8	0.67	88.253		
300.0	300.0	300.0	300.0	0.6	0.6	-88.26	1.8	-59.5	59.5	58.4	1.12	52.952		
400.0	400.0	400.0	400.0	0.8	0.8	-88.26	1.8	-59.5	59.5	57.9	1.57	37.823		
500.0	500.0	500.0	500.0	1.0	1.0	-88.26	1.8	-59.5	59.5	57.5	2.02	29.418		
600.0	600.0	600.0	600.0	1.2	1.2	-88.26	1.8	-59.5	59.5	57.0	2.47	24.069		
700.0	700.0	700.0	700.0	1.5	1.5	-88.26	1.8	-59.5	59.5	56.6	2.92	20.366		
800.0	800.0	800.0	800.0	1.7	1.7	-88.26	1.8	-59.5	59.5	56.1	3.37	17.651		
900.0	900.0	900.0	900.0	1.9	1.9	-88.26	1.8	-59.5	59.5	55.7	3.82	15.574		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-88.26	1.8	-59.5	59.5	55.2	4.27	13.935		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-88.26	1.8	-59.5	59.5	54.8	4.72	12.608		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-88.26	1.8	-59.5	59.5	54.3	5.17	11.511		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-88.26	1.8	-59.5	59.5	53.9	5.62	10.590		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-88.26	1.8	-59.5	59.5	53.4	6.07	9.806		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-88.26	1.8	-59.5	59.5	53.0	6.52	9.130		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-88.26	1.8	-59.5	59.5	52.5	6.97	8.541		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-88.26	1.8	-59.5	59.5	52.1	7.42	8.023		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-88.26	1.8	-59.5	59.5	51.6	7.87	7.565		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-88.26	1.8	-59.5	59.5	51.2	8.32	7.156		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-88.26	1.8	-59.5	59.5	50.7	8.77	6.789		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-88.26	1.8	-59.5	59.5	50.3	9.22	6.458		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-88.26	1.8	-59.5	59.5	49.8	9.66	6.157		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-88.26	1.8	-59.5	59.5	49.4	10.11	5.884		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-88.26	1.8	-59.5	59.5	48.9	10.56	5.633		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-88.26	1.8	-59.5	59.5	48.5	11.01	5.403		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-88.26	1.8	-59.5	59.5	48.0	11.46	5.191		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-88.26	1.8	-59.5	59.5	47.6	11.91	4.995		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-88.26	1.8	-59.5	59.5	47.1	12.36	4.814		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-88.26	1.8	-59.5	59.5	46.7	12.81	4.645		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-88.26	1.8	-59.5	59.5	46.2	13.26	4.487		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-88.26	1.8	-59.5	59.5	45.8	13.71	4.340		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-88.26	1.8	-59.5	59.5	45.3	14.16	4.203		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-88.26	1.8	-59.5	59.5	44.9	14.61	4.073		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-88.26	1.8	-59.5	59.5	44.4	15.06	3.952		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-88.26	1.8	-59.5	59.5	44.0	15.51	3.837		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-88.26	1.8	-59.5	59.5	43.6	15.96	3.729		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-88.26	1.8	-59.5	59.5	43.1	16.41	3.627		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-88.26	1.8	-59.5	59.5	42.7	16.86	3.530		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-88.26	1.8	-59.5	59.5	42.2	17.31	3.438		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-88.26	1.8	-59.5	59.5	41.8	17.76	3.351		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-88.26	1.8	-59.5	59.5	41.3	18.21	3.269		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	-88.26	1.8	-59.5	59.5	40.9	18.66	3.190		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	-88.26	1.8	-59.5	59.5	40.4	19.11	3.115		
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	-88.26	1.8	-59.5	59.5	40.0	19.55	3.043		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	-88.26	1.8	-59.5	59.5	39.5	20.00	2.975		
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	-88.26	1.8	-59.5	59.5	39.1	20.45	2.909		
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	-88.26	1.8	-59.5	59.5	38.6	20.90	2.847		
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	-88.26	1.8	-59.5	59.5	38.2	21.35	2.787		
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	-88.26	1.8	-59.5	59.5	37.7	21.80	2.729		
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	-88.26	1.8	-59.5	59.5	37.3	22.25	2.674		
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	-88.26	1.8	-59.5	59.5	36.8	22.70	2.621		

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



<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	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		
5,200.0	5,200.0	5,200.0	5,200.0	11.6	11.6	-88.26	1.8	-59.5	59.5	36.4	23.15	2.570	CC, ES, SF	
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	-149.26	1.8	-59.5	61.0	37.4	23.58	2.587		
5,400.0	5,399.8	5,399.8	5,399.8	12.0	12.0	-151.55	1.8	-59.5	65.6	41.6	23.99	2.733		
5,500.0	5,499.5	5,499.5	5,499.5	12.2	12.2	-154.73	1.8	-59.5	73.3	49.0	24.37	3.009		
5,600.0	5,598.7	5,598.7	5,598.7	12.4	12.5	-158.17	1.8	-59.5	84.5	59.8	24.72	3.419		
5,700.0	5,697.5	5,697.5	5,697.5	12.7	12.7	-161.43	1.8	-59.5	99.2	74.2	25.05	3.962		
5,800.0	5,795.6	5,794.9	5,794.9	12.9	12.9	-163.73	2.8	-59.9	117.7	92.3	25.34	4.643		
5,900.0	5,893.1	5,890.6	5,890.2	13.2	13.1	-162.75	10.3	-63.0	140.5	114.9	25.62	5.485		
6,000.0	5,989.6	5,984.0	5,982.3	13.5	13.3	-159.63	24.8	-69.0	168.2	142.3	25.90	6.494		
6,100.0	6,085.3	6,074.0	6,069.5	13.8	13.5	-155.56	45.2	-77.4	201.1	174.9	26.19	7.679		
6,200.0	6,179.8	6,159.9	6,150.9	14.1	13.8	-151.25	70.5	-87.8	240.0	213.4	26.52	9.046		
6,300.0	6,273.2	6,240.9	6,225.5	14.5	14.0	-147.08	99.4	-99.8	284.8	257.9	26.91	10.584		
6,400.0	6,365.2	6,316.6	6,293.2	14.9	14.2	-143.21	130.9	-112.8	335.5	308.2	27.34	12.273		
6,500.0	6,455.8	6,392.9	6,359.3	15.4	14.5	-139.55	166.1	-127.3	391.5	363.7	27.86	14.053		
6,600.0	6,544.9	6,472.7	6,428.1	15.9	14.9	-136.55	203.4	-142.7	450.5	422.1	28.46	15.832		
6,700.0	6,632.4	6,557.8	6,503.0	16.6	15.2	-134.65	240.0	-159.5	511.5	482.4	29.06	17.600		
6,800.0	6,718.7	6,646.2	6,586.1	17.2	15.5	-136.03	262.8	-178.2	572.4	542.8	29.59	19.343		
6,900.0	6,805.5	6,729.5	6,667.2	17.9	15.7	-154.17	268.3	-196.4	633.2	603.8	29.41	21.531		
7,000.0	6,894.5	6,809.5	6,744.6	18.5	15.9	168.56	258.8	-213.9	696.4	667.2	29.20	23.851		
7,100.0	6,981.8	6,889.9	6,819.4	19.0	15.9	136.00	235.0	-230.8	758.6	728.7	29.95	25.330		
7,200.0	7,063.0	6,973.8	6,891.5	19.4	16.0	113.11	195.8	-247.2	816.6	785.6	31.00	26.343		
7,300.0	7,134.0	7,063.4	6,959.1	19.7	15.9	98.19	139.3	-262.6	867.3	835.6	31.67	27.386		
7,400.0	7,191.0	7,160.3	7,018.0	20.0	15.9	88.73	63.8	-276.1	908.2	876.3	31.85	28.511		
7,500.0	7,231.2	7,264.4	7,061.7	20.2	15.9	83.05	-29.8	-286.3	937.0	905.1	31.88	29.393		
7,600.0	7,252.5	7,373.2	7,083.3	20.5	16.2	80.19	-136.1	-291.4	952.0	919.9	32.18	29.588		
7,700.0	7,255.7	7,476.3	7,084.7	20.8	16.8	79.68	-239.2	-292.1	954.1	921.1	32.96	28.951		
7,800.0	7,255.7	7,576.3	7,084.7	21.3	17.5	79.67	-339.2	-292.4	953.9	919.7	34.28	27.824		
7,900.0	7,255.7	7,676.3	7,084.7	21.9	18.3	79.67	-439.2	-292.7	953.8	917.8	35.98	26.508		
8,000.0	7,255.7	7,776.3	7,084.7	22.7	19.4	79.67	-539.2	-293.0	953.6	915.6	37.98	25.107		
8,100.0	7,255.7	7,876.3	7,084.7	23.7	20.5	79.67	-639.2	-293.3	953.4	913.2	40.24	23.694		
8,200.0	7,255.7	7,976.3	7,084.7	24.7	21.8	79.67	-739.2	-293.6	953.3	910.6	42.72	22.316		
8,300.0	7,255.7	8,076.3	7,084.7	25.9	23.1	79.66	-839.2	-293.9	953.1	907.7	45.37	21.005		
8,400.0	7,255.7	8,176.3	7,084.7	27.2	24.6	79.66	-939.2	-294.2	952.9	904.8	48.18	19.777		
8,500.0	7,255.7	8,276.3	7,084.7	28.5	26.1	79.66	-1,039.2	-294.5	952.8	901.7	51.12	18.638		
8,600.0	7,255.7	8,376.3	7,084.7	29.9	27.6	79.66	-1,139.2	-294.8	952.6	898.4	54.16	17.587		
8,700.0	7,255.7	8,476.3	7,084.7	31.4	29.2	79.66	-1,239.2	-295.1	952.4	895.1	57.30	16.623		
8,800.0	7,255.7	8,576.3	7,084.7	32.9	30.8	79.66	-1,339.2	-295.4	952.3	891.8	60.50	15.739		
8,900.0	7,255.7	8,676.3	7,084.7	34.4	32.5	79.65	-1,439.2	-295.7	952.1	888.3	63.78	14.929		
9,000.0	7,255.7	8,776.3	7,084.7	36.0	34.2	79.65	-1,539.2	-296.1	951.9	884.8	67.10	14.187		
9,100.0	7,255.7	8,876.3	7,084.7	37.6	35.9	79.65	-1,639.2	-296.4	951.8	881.3	70.47	13.505		
9,200.0	7,255.7	8,976.3	7,084.7	39.3	37.6	79.65	-1,739.2	-296.7	951.6	877.7	73.89	12.879		
9,300.0	7,255.7	9,076.3	7,084.7	40.9	39.4	79.65	-1,839.2	-297.0	951.4	874.1	77.34	12.303		
9,400.0	7,255.7	9,176.3	7,084.7	42.6	41.1	79.64	-1,939.2	-297.3	951.3	870.5	80.82	11.771		
9,500.0	7,255.7	9,276.3	7,084.7	44.3	42.9	79.64	-2,039.2	-297.6	951.1	866.8	84.32	11.279		
9,600.0	7,255.7	9,376.3	7,084.7	46.1	44.7	79.64	-2,139.2	-297.9	950.9	863.1	87.85	10.824		
9,700.0	7,255.7	9,476.3	7,084.7	47.8	46.5	79.64	-2,239.2	-298.2	950.8	859.4	91.40	10.402		
9,800.0	7,255.7	9,576.3	7,084.7	49.6	48.3	79.64	-2,339.2	-298.5	950.6	855.6	94.97	10.009		
9,900.0	7,255.7	9,676.3	7,084.7	51.3	50.1	79.64	-2,439.2	-298.8	950.4	851.9	98.56	9.644		
10,000.0	7,255.7	9,776.3	7,084.7	53.1	52.0	79.63	-2,539.2	-299.1	950.3	848.1	102.16	9.302		
10,100.0	7,255.7	9,876.3	7,084.7	54.9	53.8	79.63	-2,639.1	-299.4	950.1	844.3	105.77	8.983		
10,200.0	7,255.7	9,976.3	7,084.7	56.7	55.6	79.63	-2,739.1	-299.7	949.9	840.5	109.40	8.684		
10,300.0	7,255.7	10,076.3	7,084.7	58.5	57.5	79.63	-2,839.1	-300.1	949.8	836.7	113.03	8.403		

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

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Gustafson Pad Sec.31-T7N-R65W - Gustafson EF 31-377HN - Wellbore #1 - Plan #1 (12-16-13)												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,255.7	10,176.3	7,084.7	60.3	59.3	79.63	-2,939.1	-300.4	949.6	832.9	116.68	8.139	
10,500.0	7,255.7	10,276.3	7,084.7	62.1	61.2	79.62	-3,039.1	-300.7	949.4	829.1	120.33	7.890	
10,600.0	7,255.7	10,376.3	7,084.7	64.0	63.0	79.62	-3,139.1	-301.0	949.3	825.3	124.00	7.656	
10,700.0	7,255.7	10,476.3	7,084.7	65.8	64.9	79.62	-3,239.1	-301.3	949.1	821.4	127.67	7.434	
10,800.0	7,255.7	10,576.3	7,084.7	67.6	66.8	79.62	-3,339.1	-301.6	948.9	817.6	131.34	7.225	
10,900.0	7,255.7	10,676.3	7,084.7	69.5	68.6	79.62	-3,439.1	-301.9	948.8	813.8	135.03	7.027	
11,000.0	7,255.7	10,776.3	7,084.7	71.3	70.5	79.61	-3,539.1	-302.2	948.6	809.9	138.71	6.839	
11,100.0	7,255.7	10,876.3	7,084.7	73.2	72.4	79.61	-3,639.1	-302.5	948.4	806.0	142.41	6.660	
11,200.0	7,255.7	10,976.3	7,084.7	75.0	74.2	79.61	-3,739.1	-302.8	948.3	802.2	146.11	6.490	
11,300.0	7,255.7	11,076.3	7,084.7	76.9	76.1	79.61	-3,839.1	-303.1	948.1	798.3	149.81	6.329	
11,400.0	7,255.7	11,176.3	7,084.7	78.7	78.0	79.61	-3,939.1	-303.4	948.0	794.4	153.52	6.175	
11,500.0	7,255.7	11,276.3	7,084.7	80.6	79.9	79.61	-4,039.1	-303.7	947.8	790.6	157.23	6.028	
11,600.0	7,255.7	11,376.3	7,084.7	82.5	81.8	79.60	-4,139.1	-304.0	947.6	786.7	160.94	5.888	
11,700.0	7,255.7	11,476.3	7,084.7	84.3	83.7	79.60	-4,239.1	-304.4	947.5	782.8	164.66	5.754	
11,800.0	7,255.7	11,576.3	7,084.7	86.2	85.5	79.60	-4,339.1	-304.7	947.3	778.9	168.38	5.626	
11,900.0	7,255.7	11,676.3	7,084.7	88.1	87.4	79.60	-4,439.1	-305.0	947.1	775.0	172.11	5.503	
11,973.0	7,255.7	11,749.3	7,084.7	89.4	88.6	79.60	-4,512.2	-305.2	947.0	772.3	174.65	5.422	
12,000.0	7,255.7	11,762.7	7,084.7	89.9	88.8	79.60	-4,525.6	-305.2	947.1	771.7	175.36	5.401	
12,009.1	7,255.7	11,762.7	7,084.7	90.1	88.8	79.60	-4,525.6	-305.2	947.2	771.7	175.53	5.396	



<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	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	-88.84	1.8	-89.8	89.8				
100.0	100.0	100.0	100.0	0.1	0.1	-88.84	1.8	-89.8	89.8	89.6	0.22	399.512	
200.0	200.0	200.0	200.0	0.3	0.3	-88.84	1.8	-89.8	89.8	89.1	0.67	133.171	
300.0	300.0	300.0	300.0	0.6	0.6	-88.84	1.8	-89.8	89.8	88.7	1.12	79.902	
400.0	400.0	400.0	400.0	0.8	0.8	-88.84	1.8	-89.8	89.8	88.2	1.57	57.073	
500.0	500.0	500.0	500.0	1.0	1.0	-88.84	1.8	-89.8	89.8	87.8	2.02	44.390	
600.0	600.0	600.0	600.0	1.2	1.2	-88.84	1.8	-89.8	89.8	87.3	2.47	36.319	
700.0	700.0	700.0	700.0	1.5	1.5	-88.84	1.8	-89.8	89.8	86.9	2.92	30.732	
800.0	800.0	800.0	800.0	1.7	1.7	-88.84	1.8	-89.8	89.8	86.4	3.37	26.634	
900.0	900.0	900.0	900.0	1.9	1.9	-88.84	1.8	-89.8	89.8	86.0	3.82	23.501	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-88.84	1.8	-89.8	89.8	85.5	4.27	21.027	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-88.84	1.8	-89.8	89.8	85.1	4.72	19.024	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-88.84	1.8	-89.8	89.8	84.6	5.17	17.370	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-88.84	1.8	-89.8	89.8	84.2	5.62	15.980	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-88.84	1.8	-89.8	89.8	83.7	6.07	14.797	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-88.84	1.8	-89.8	89.8	83.3	6.52	13.776	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-88.84	1.8	-89.8	89.8	82.8	6.97	12.887	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-88.84	1.8	-89.8	89.8	82.4	7.42	12.106	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-88.84	1.8	-89.8	89.8	81.9	7.87	11.415	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-88.84	1.8	-89.8	89.8	81.5	8.32	10.798	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-88.84	1.8	-89.8	89.8	81.0	8.77	10.244	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-88.84	1.8	-89.8	89.8	80.6	9.22	9.744	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-88.84	1.8	-89.8	89.8	80.1	9.66	9.291	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-88.84	1.8	-89.8	89.8	79.7	10.11	8.878	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-88.84	1.8	-89.8	89.8	79.2	10.56	8.500	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-88.84	1.8	-89.8	89.8	78.8	11.01	8.153	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-88.84	1.8	-89.8	89.8	78.3	11.46	7.834	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-88.84	1.8	-89.8	89.8	77.9	11.91	7.538	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-88.84	1.8	-89.8	89.8	77.4	12.36	7.264	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-88.84	1.8	-89.8	89.8	77.0	12.81	7.009	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-88.84	1.8	-89.8	89.8	76.5	13.26	6.771	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-88.84	1.8	-89.8	89.8	76.1	13.71	6.549	
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-88.84	1.8	-89.8	89.8	75.6	14.16	6.341	
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-88.84	1.8	-89.8	89.8	75.2	14.61	6.146	
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-88.84	1.8	-89.8	89.8	74.7	15.06	5.963	
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-88.84	1.8	-89.8	89.8	74.3	15.51	5.790	
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-88.84	1.8	-89.8	89.8	73.8	15.96	5.627	
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-88.84	1.8	-89.8	89.8	73.4	16.41	5.473	
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-88.84	1.8	-89.8	89.8	72.9	16.86	5.327	
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-88.84	1.8	-89.8	89.8	72.5	17.31	5.188	
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-88.84	1.8	-89.8	89.8	72.0	17.76	5.057	
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-88.84	1.8	-89.8	89.8	71.6	18.21	4.932	
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	-88.84	1.8	-89.8	89.8	71.1	18.66	4.813	
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	-88.84	1.8	-89.8	89.8	70.7	19.11	4.700	
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	-88.84	1.8	-89.8	89.8	70.2	19.55	4.592	
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	-88.84	1.8	-89.8	89.8	69.8	20.00	4.489	
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	-88.84	1.8	-89.8	89.8	69.3	20.45	4.390	
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	-88.84	1.8	-89.8	89.8	68.9	20.90	4.296	
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	-88.84	1.8	-89.8	89.8	68.4	21.35	4.205	
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	-88.84	1.8	-89.8	89.8	68.0	21.80	4.119	
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	-88.84	1.8	-89.8	89.8	67.5	22.25	4.035	
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	-88.84	1.8	-89.8	89.8	67.1	22.70	3.956	

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

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	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		
5,200.0	5,200.0	5,200.0	5,200.0	11.6	11.6	-88.84	1.8	-89.8	89.8	66.6	23.15	3.879 CC, ES		
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	-149.54	1.8	-89.8	91.3	67.7	23.58	3.871 SF		
5,400.0	5,399.8	5,399.8	5,399.8	12.0	12.0	-151.08	1.8	-89.8	95.8	71.9	23.99	3.995		
5,500.0	5,499.5	5,499.5	5,499.5	12.2	12.2	-153.34	1.8	-89.8	103.6	79.2	24.37	4.249		
5,600.0	5,598.7	5,595.4	5,595.4	12.4	12.5	-155.37	2.8	-90.9	115.7	91.0	24.72	4.681		
5,700.0	5,697.5	5,689.3	5,689.1	12.7	12.7	-156.06	6.5	-95.6	134.5	109.5	25.04	5.372		
5,800.0	5,795.6	5,781.0	5,780.2	12.9	12.9	-155.78	13.0	-103.7	159.8	134.4	25.33	6.307		
5,900.0	5,893.1	5,870.1	5,868.2	13.2	13.1	-154.93	21.8	-114.7	191.3	165.7	25.61	7.469		
6,000.0	5,989.6	5,955.9	5,952.2	13.5	13.3	-153.80	32.8	-128.4	228.9	203.0	25.88	8.846		
6,100.0	6,085.3	6,038.1	6,031.8	13.8	13.5	-152.56	45.5	-144.3	272.3	246.2	26.13	10.420		
6,200.0	6,179.8	6,116.3	6,106.6	14.1	13.7	-151.29	59.6	-161.8	321.2	294.9	26.38	12.176		
6,300.0	6,273.2	6,190.2	6,176.6	14.5	13.9	-150.02	74.6	-180.6	375.4	348.7	26.64	14.093		
6,400.0	6,365.2	6,259.9	6,241.5	14.9	14.2	-148.77	90.3	-200.2	434.3	407.4	26.90	16.148		
6,500.0	6,455.8	6,325.1	6,301.4	15.4	14.4	-147.51	106.4	-220.2	497.8	470.6	27.17	18.320		
6,600.0	6,544.9	6,385.9	6,356.5	15.9	14.6	-146.24	122.5	-240.3	565.4	537.9	27.47	20.582		
6,700.0	6,632.4	6,442.4	6,406.9	16.6	14.9	-144.93	138.4	-260.2	636.7	608.9	27.81	22.899		
6,800.0	6,718.7	6,500.0	6,457.6	17.2	15.2	-144.56	155.6	-281.7	710.9	682.6	28.32	25.104		
6,900.0	6,805.5	6,547.5	6,498.6	17.9	15.4	-162.19	170.5	-300.3	786.6	758.3	28.28	27.811		
7,000.0	6,894.5	6,607.2	6,550.0	18.5	15.8	-159.59	189.5	-323.9	863.3	834.5	28.77	30.008		
7,100.0	6,981.8	6,658.7	6,594.4	19.0	16.1	-126.74	205.9	-344.4	938.3	908.0	30.28	30.986		
7,200.0	7,063.0	6,699.3	6,629.4	19.4	16.4	-103.29	218.8	-360.5	1,010.1	978.4	31.72	31.847		
7,300.0	7,134.0	6,727.1	6,653.3	19.7	16.5	-87.03	227.6	-371.5	1,077.3	1,045.0	32.31	33.337		
7,400.0	7,191.0	6,740.5	6,664.9	20.0	16.6	-75.44	231.9	-376.8	1,138.5	1,106.7	31.84	35.757		
7,500.0	7,231.2	6,738.9	6,663.5	20.2	16.6	-67.01	231.4	-376.2	1,192.3	1,161.8	30.52	39.071		
7,600.0	7,252.5	6,722.3	6,649.2	20.5	16.5	-60.99	226.1	-369.6	1,236.9	1,208.0	28.88	42.821		
7,700.0	7,255.7	6,692.9	6,623.9	20.8	16.3	-57.89	216.7	-357.9	1,272.3	1,244.3	28.05	45.362		
7,800.0	7,255.7	7,825.9	7,255.7	21.3	20.0	90.00	-339.0	-650.5	1,296.7	1,261.1	35.56	36.462		
7,900.0	7,255.7	7,925.9	7,255.7	21.9	20.6	90.00	-439.0	-650.8	1,296.4	1,259.2	37.25	34.802		
8,000.0	7,255.7	8,025.9	7,255.7	22.7	21.5	90.00	-539.0	-651.0	1,296.2	1,256.9	39.25	33.027		
8,100.0	7,255.7	8,125.9	7,255.7	23.7	22.5	90.00	-639.0	-651.2	1,295.9	1,254.4	41.50	31.226		
8,200.0	7,255.7	8,225.9	7,255.7	24.7	23.6	90.00	-739.0	-651.5	1,295.7	1,251.7	43.98	29.462		
8,300.0	7,255.7	8,325.9	7,255.7	25.9	24.8	90.00	-839.0	-651.7	1,295.4	1,248.8	46.64	27.775		
8,400.0	7,255.7	8,425.9	7,255.7	27.2	26.1	90.00	-939.0	-651.9	1,295.2	1,245.7	49.46	26.187		
8,500.0	7,255.7	8,525.9	7,255.7	28.5	27.5	90.00	-1,039.0	-652.2	1,294.9	1,242.5	52.41	24.709		
8,600.0	7,255.7	8,625.9	7,255.7	29.9	29.0	90.00	-1,139.0	-652.4	1,294.7	1,239.2	55.47	23.342		
8,700.0	7,255.7	8,725.9	7,255.7	31.4	30.5	90.00	-1,239.0	-652.6	1,294.5	1,235.8	58.62	22.083		
8,800.0	7,255.7	8,825.9	7,255.7	32.9	32.0	90.00	-1,339.0	-652.9	1,294.2	1,232.4	61.85	20.925		
8,900.0	7,255.7	8,925.9	7,255.7	34.4	33.6	90.00	-1,439.0	-653.1	1,294.0	1,228.8	65.15	19.863		
9,000.0	7,255.7	9,025.9	7,255.7	36.0	35.3	90.00	-1,539.0	-653.3	1,293.7	1,225.2	68.50	18.886		
9,100.0	7,255.7	9,125.9	7,255.7	37.6	36.9	90.00	-1,639.0	-653.6	1,293.5	1,221.6	71.90	17.989		
9,200.0	7,255.7	9,225.9	7,255.7	39.3	38.6	90.00	-1,739.0	-653.8	1,293.2	1,217.9	75.35	17.163		
9,300.0	7,255.7	9,325.9	7,255.7	40.9	40.3	90.00	-1,839.0	-654.0	1,293.0	1,214.2	78.83	16.402		
9,400.0	7,255.7	9,425.9	7,255.7	42.6	42.0	90.00	-1,939.0	-654.3	1,292.8	1,210.4	82.35	15.699		
9,500.0	7,255.7	9,525.9	7,255.7	44.3	43.8	90.00	-2,039.0	-654.5	1,292.5	1,206.6	85.89	15.048		
9,600.0	7,255.7	9,625.9	7,255.7	46.1	45.5	90.00	-2,139.0	-654.7	1,292.3	1,202.8	89.46	14.445		
9,700.0	7,255.7	9,725.9	7,255.7	47.8	47.3	90.00	-2,239.0	-655.0	1,292.0	1,199.0	93.05	13.885		
9,800.0	7,255.7	9,825.9	7,255.7	49.6	49.1	90.00	-2,339.0	-655.2	1,291.8	1,195.1	96.66	13.364		
9,900.0	7,255.7	9,925.9	7,255.7	51.3	50.9	90.00	-2,439.0	-655.4	1,291.5	1,191.2	100.29	12.878		
10,000.0	7,255.7	10,025.9	7,255.7	53.1	52.7	90.00	-2,539.0	-655.6	1,291.3	1,187.4	103.93	12.425		
10,100.0	7,255.7	10,125.9	7,255.7	54.9	54.5	90.00	-2,639.0	-655.9	1,291.0	1,183.5	107.59	12.000		
10,200.0	7,255.7	10,225.9	7,255.7	56.7	56.3	90.00	-2,739.0	-656.1	1,290.8	1,179.5	111.26	11.602		
10,300.0	7,255.7	10,325.9	7,255.7	58.5	58.1	90.00	-2,839.0	-656.3	1,290.6	1,175.6	114.94	11.228		

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

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Gustafson Pad Sec.31-T7N-R65W - Gustafson EF 31-378HC - Wellbore #1 - Plan #1 (12-16-13)												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,255.7	10,425.9	7,255.7	60.3	59.9	90.00	-2,939.0	-656.6	1,290.3	1,171.7	118.63	10.877	
10,500.0	7,255.7	10,525.9	7,255.7	62.1	61.8	90.00	-3,039.0	-656.8	1,290.1	1,167.7	122.33	10.546	
10,600.0	7,255.7	10,625.9	7,255.7	64.0	63.6	90.00	-3,139.0	-657.0	1,289.8	1,163.8	126.04	10.234	
10,700.0	7,255.7	10,725.9	7,255.7	65.8	65.4	90.00	-3,239.0	-657.3	1,289.6	1,159.8	129.76	9.939	
10,800.0	7,255.7	10,825.9	7,255.7	67.6	67.3	90.00	-3,339.0	-657.5	1,289.3	1,155.9	133.48	9.659	
10,900.0	7,255.7	10,925.9	7,255.7	69.5	69.1	90.00	-3,439.0	-657.7	1,289.1	1,151.9	137.21	9.395	
11,000.0	7,255.7	11,025.9	7,255.7	71.3	71.0	90.00	-3,539.0	-658.0	1,288.8	1,147.9	140.95	9.144	
11,100.0	7,255.7	11,125.9	7,255.7	73.2	72.9	90.00	-3,639.0	-658.2	1,288.6	1,143.9	144.69	8.906	
11,200.0	7,255.7	11,225.9	7,255.7	75.0	74.7	90.00	-3,739.0	-658.4	1,288.4	1,139.9	148.44	8.679	
11,300.0	7,255.7	11,325.9	7,255.7	76.9	76.6	90.00	-3,839.0	-658.7	1,288.1	1,135.9	152.19	8.464	
11,400.0	7,255.7	11,425.9	7,255.7	78.7	78.5	90.00	-3,939.0	-658.9	1,287.9	1,131.9	155.95	8.258	
11,500.0	7,255.7	11,525.9	7,255.7	80.6	80.3	90.00	-4,039.0	-659.1	1,287.6	1,127.9	159.71	8.062	
11,600.0	7,255.7	11,625.9	7,255.7	82.5	82.2	90.00	-4,139.0	-659.4	1,287.4	1,123.9	163.48	7.875	
11,700.0	7,255.7	11,725.9	7,255.7	84.3	84.1	90.00	-4,239.0	-659.6	1,287.1	1,119.9	167.25	7.696	
11,800.0	7,255.7	11,825.9	7,255.7	86.2	85.9	90.00	-4,339.0	-659.8	1,286.9	1,115.9	171.02	7.525	
11,900.0	7,255.7	11,925.9	7,255.7	88.1	87.8	90.00	-4,439.0	-660.1	1,286.6	1,111.9	174.79	7.361	
11,970.9	7,255.7	11,996.8	7,255.7	89.4	89.2	90.00	-4,509.9	-660.2	1,286.5	1,109.0	177.47	7.249	
12,000.0	7,255.7	12,003.1	7,255.7	89.9	89.3	90.00	-4,516.2	-660.2	1,286.6	1,108.5	178.14	7.222	
12,009.1	7,255.7	12,003.1	7,255.7	90.1	89.3	90.00	-4,516.2	-660.2	1,286.8	1,108.5	178.31	7.216	

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	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	-88.60	2.9	-119.8	119.8				
100.0	100.0	100.0	100.0	0.1	0.1	-88.60	2.9	-119.8	119.8	119.6	0.22	533.143	
200.0	200.0	200.0	200.0	0.3	0.3	-88.60	2.9	-119.8	119.8	119.2	0.67	177.714	
300.0	300.0	300.0	300.0	0.6	0.6	-88.60	2.9	-119.8	119.8	118.7	1.12	106.629	
400.0	400.0	400.0	400.0	0.8	0.8	-88.60	2.9	-119.8	119.8	118.3	1.57	76.163	
500.0	500.0	500.0	500.0	1.0	1.0	-88.60	2.9	-119.8	119.8	117.8	2.02	59.238	
600.0	600.0	600.0	600.0	1.2	1.2	-88.60	2.9	-119.8	119.8	117.4	2.47	48.468	
700.0	700.0	700.0	700.0	1.5	1.5	-88.60	2.9	-119.8	119.8	116.9	2.92	41.011	
800.0	800.0	800.0	800.0	1.7	1.7	-88.60	2.9	-119.8	119.8	116.5	3.37	35.543	
900.0	900.0	900.0	900.0	1.9	1.9	-88.60	2.9	-119.8	119.8	116.0	3.82	31.361	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-88.60	2.9	-119.8	119.8	115.6	4.27	28.060	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-88.60	2.9	-119.8	119.8	115.1	4.72	25.388	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-88.60	2.9	-119.8	119.8	114.7	5.17	23.180	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-88.60	2.9	-119.8	119.8	114.2	5.62	21.326	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-88.60	2.9	-119.8	119.8	113.8	6.07	19.746	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-88.60	2.9	-119.8	119.8	113.3	6.52	18.384	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-88.60	2.9	-119.8	119.8	112.9	6.97	17.198	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-88.60	2.9	-119.8	119.8	112.4	7.42	16.156	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-88.60	2.9	-119.8	119.8	112.0	7.87	15.233	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-88.60	2.9	-119.8	119.8	111.5	8.32	14.409	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-88.60	2.9	-119.8	119.8	111.1	8.77	13.670	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-88.60	2.9	-119.8	119.8	110.6	9.22	13.003	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-88.60	2.9	-119.8	119.8	110.2	9.66	12.399	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-88.60	2.9	-119.8	119.8	109.7	10.11	11.848	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-88.60	2.9	-119.8	119.8	109.3	10.56	11.343	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-88.60	2.9	-119.8	119.8	108.8	11.01	10.880	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-88.60	2.9	-119.8	119.8	108.4	11.46	10.454	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-88.60	2.9	-119.8	119.8	107.9	11.91	10.059	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-88.60	2.9	-119.8	119.8	107.5	12.36	9.694	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-88.60	2.9	-119.8	119.8	107.0	12.81	9.353	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-88.60	2.9	-119.8	119.8	106.6	13.26	9.036	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-88.60	2.9	-119.8	119.8	106.1	13.71	8.740	
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-88.60	2.9	-119.8	119.8	105.7	14.16	8.463	
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-88.60	2.9	-119.8	119.8	105.2	14.61	8.202	
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-88.60	2.9	-119.8	119.8	104.8	15.06	7.957	
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-88.60	2.9	-119.8	119.8	104.3	15.51	7.727	
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-88.60	2.9	-119.8	119.8	103.9	15.96	7.509	
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-88.60	2.9	-119.8	119.8	103.4	16.41	7.303	
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-88.60	2.9	-119.8	119.8	103.0	16.86	7.109	
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-88.60	2.9	-119.8	119.8	102.5	17.31	6.924	
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-88.60	2.9	-119.8	119.8	102.1	17.76	6.749	
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-88.60	2.9	-119.8	119.8	101.6	18.21	6.582	
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	-88.60	2.9	-119.8	119.8	101.2	18.66	6.423	
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	-88.60	2.9	-119.8	119.8	100.7	19.11	6.272	
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	-88.60	2.9	-119.8	119.8	100.3	19.55	6.128	
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	-88.60	2.9	-119.8	119.8	99.8	20.00	5.990	
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	-88.60	2.9	-119.8	119.8	99.4	20.45	5.859	
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	-88.60	2.9	-119.8	119.8	98.9	20.90	5.733	
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	-88.60	2.9	-119.8	119.8	98.5	21.35	5.612	
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	-88.60	2.9	-119.8	119.8	98.0	21.80	5.496	
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	-88.60	2.9	-119.8	119.8	97.6	22.25	5.385	
5,033.4	5,033.4	5,033.4	5,033.4	11.2	11.2	-88.60	2.9	-119.8	119.8	97.4	22.40	5.349 CC, ES	

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

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	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	5,097.3	5,097.3	11.4	11.3	-88.49	3.2	-120.3	120.4	97.7	22.69	5.306 SF		
5,200.0	5,200.0	5,191.7	5,191.5	11.6	11.5	-87.58	5.3	-124.5	124.9	101.8	23.12	5.403		
5,300.0	5,300.0	5,285.2	5,284.6	11.8	11.7	-146.38	9.4	-132.7	135.4	111.9	23.52	5.757		
5,400.0	5,399.8	5,377.2	5,375.6	12.0	12.0	-145.20	15.4	-144.8	153.3	129.4	23.90	6.414		
5,500.0	5,499.5	5,466.7	5,463.4	12.2	12.2	-144.24	23.2	-160.3	178.3	154.0	24.26	7.350		
5,600.0	5,598.7	5,553.3	5,547.5	12.4	12.4	-143.48	32.4	-178.8	210.1	185.5	24.59	8.545		
5,700.0	5,697.5	5,636.3	5,627.1	12.7	12.6	-142.86	42.8	-199.7	248.5	223.6	24.91	9.976		
5,800.0	5,795.6	5,715.3	5,702.0	12.9	12.9	-142.31	54.2	-222.4	293.1	267.8	25.21	11.624		
5,900.0	5,893.1	5,790.1	5,771.7	13.2	13.1	-141.78	66.2	-246.5	343.3	317.8	25.49	13.468		
6,000.0	5,989.6	5,860.4	5,836.3	13.5	13.4	-141.23	78.6	-271.3	399.0	373.2	25.76	15.486		
6,100.0	6,085.3	5,926.2	5,895.8	13.8	13.7	-140.63	91.2	-296.5	459.5	433.5	26.02	17.658		
6,200.0	6,179.8	5,987.4	5,950.2	14.1	14.0	-139.96	103.7	-321.5	524.6	498.3	26.28	19.961		
6,300.0	6,273.2	6,044.1	5,999.8	14.5	14.3	-139.18	115.9	-346.1	593.8	567.3	26.55	22.369		
6,400.0	6,365.2	6,106.6	6,053.8	14.9	14.7	-138.42	130.0	-374.3	666.4	639.6	26.84	24.830		
6,500.0	6,455.8	6,172.9	6,110.9	15.4	15.1	-137.73	145.0	-404.4	741.0	713.8	27.16	27.281		
6,600.0	6,544.9	6,237.0	6,166.2	15.9	15.5	-137.03	159.5	-433.4	817.4	789.8	27.51	29.706		
6,700.0	6,632.4	6,298.8	6,219.5	16.6	16.0	-136.30	173.5	-461.4	895.4	867.5	27.91	32.087		
6,800.0	6,718.7	6,359.1	6,271.4	17.2	16.4	-136.94	187.2	-488.7	974.6	946.2	28.39	34.323		
6,900.0	6,805.5	6,419.0	6,323.1	17.9	16.9	-156.47	200.7	-515.9	1,054.3	1,026.1	28.15	37.451		
7,000.0	6,894.5	6,476.0	6,372.2	18.5	17.3	161.67	213.6	-541.7	1,135.3	1,106.6	28.66	39.611		
7,100.0	6,981.8	6,526.8	6,416.1	19.0	17.7	125.81	225.1	-564.8	1,214.6	1,183.8	30.80	39.431		
7,200.0	7,063.0	6,569.0	6,452.4	19.4	18.1	100.76	234.7	-583.9	1,289.8	1,257.2	32.66	39.493		
7,300.0	7,134.0	6,600.3	6,479.5	19.7	18.3	84.12	241.8	-598.1	1,358.9	1,325.7	33.21	40.916		
7,400.0	7,191.0	6,619.2	6,495.7	20.0	18.5	72.92	246.1	-606.6	1,420.2	1,387.8	32.45	43.769		
7,500.0	7,231.2	6,624.7	6,500.4	20.2	18.5	65.30	247.3	-609.1	1,472.3	1,441.5	30.82	47.769		
7,600.0	7,252.5	6,616.4	6,493.3	20.5	18.5	60.23	245.4	-605.3	1,513.6	1,484.6	29.01	52.172		
7,700.0	7,255.7	6,596.1	6,475.8	20.8	18.3	57.93	240.8	-596.1	1,544.6	1,516.4	28.22	54.729		
7,800.0	7,255.7	7,725.6	7,084.7	21.3	22.8	83.76	-338.9	-917.6	1,573.1	1,537.6	35.46	44.364		
7,900.0	7,255.7	7,825.6	7,084.7	21.9	23.2	83.76	-438.9	-917.8	1,572.8	1,535.6	37.14	42.345		
8,000.0	7,255.7	7,925.6	7,084.7	22.7	23.8	83.76	-538.9	-918.0	1,572.5	1,533.4	39.13	40.187		
8,100.0	7,255.7	8,025.6	7,084.7	23.7	24.5	83.76	-638.9	-918.2	1,572.2	1,530.9	41.38	37.999		
8,200.0	7,255.7	8,125.6	7,084.7	24.7	25.4	83.75	-738.9	-918.4	1,572.0	1,528.1	43.84	35.856		
8,300.0	7,255.7	8,225.6	7,084.7	25.9	26.5	83.75	-838.9	-918.6	1,571.7	1,525.2	46.49	33.806		
8,400.0	7,255.7	8,325.6	7,084.7	27.2	27.7	83.75	-938.9	-918.8	1,571.4	1,522.1	49.30	31.877		
8,500.0	7,255.7	8,425.6	7,084.7	28.5	28.9	83.75	-1,038.9	-919.0	1,571.1	1,518.9	52.23	30.081		
8,600.0	7,255.7	8,525.6	7,084.7	29.9	30.3	83.75	-1,138.9	-919.2	1,570.9	1,515.6	55.27	28.420		
8,700.0	7,255.7	8,625.6	7,084.7	31.4	31.7	83.75	-1,238.9	-919.4	1,570.6	1,512.2	58.41	26.889		
8,800.0	7,255.7	8,725.6	7,084.7	32.9	33.2	83.75	-1,338.9	-919.6	1,570.3	1,508.7	61.62	25.483		
8,900.0	7,255.7	8,825.6	7,084.7	34.4	34.7	83.75	-1,438.9	-919.8	1,570.0	1,505.1	64.90	24.191		
9,000.0	7,255.7	8,925.6	7,084.7	36.0	36.3	83.75	-1,538.9	-920.0	1,569.8	1,501.5	68.24	23.004		
9,100.0	7,255.7	9,025.6	7,084.7	37.6	37.9	83.75	-1,638.9	-920.2	1,569.5	1,497.9	71.63	21.913		
9,200.0	7,255.7	9,125.6	7,084.7	39.3	39.5	83.74	-1,738.9	-920.4	1,569.2	1,494.2	75.05	20.908		
9,300.0	7,255.7	9,225.6	7,084.7	40.9	41.2	83.74	-1,838.9	-920.6	1,569.0	1,490.4	78.52	19.982		
9,400.0	7,255.7	9,325.6	7,084.7	42.6	42.8	83.74	-1,938.9	-920.8	1,568.7	1,486.7	82.01	19.127		
9,500.0	7,255.7	9,425.6	7,084.7	44.3	44.5	83.74	-2,038.9	-921.0	1,568.4	1,482.9	85.54	18.336		
9,600.0	7,255.7	9,525.6	7,084.7	46.1	46.3	83.74	-2,138.9	-921.2	1,568.1	1,479.0	89.09	17.602		
9,700.0	7,255.7	9,625.6	7,084.7	47.8	48.0	83.74	-2,238.9	-921.4	1,567.9	1,475.2	92.66	16.921		
9,800.0	7,255.7	9,725.6	7,084.7	49.6	49.8	83.74	-2,338.9	-921.6	1,567.6	1,471.3	96.25	16.287		
9,900.0	7,255.7	9,825.6	7,084.7	51.3	51.5	83.74	-2,438.9	-921.8	1,567.3	1,467.5	99.86	15.695		
10,000.0	7,255.7	9,925.6	7,084.7	53.1	53.3	83.74	-2,538.9	-922.0	1,567.0	1,463.6	103.48	15.143		
10,100.0	7,255.7	10,025.6	7,084.7	54.9	55.1	83.73	-2,638.9	-922.2	1,566.8	1,459.6	107.12	14.626		
10,200.0	7,255.7	10,125.6	7,084.7	56.7	56.9	83.73	-2,738.9	-922.4	1,566.5	1,455.7	110.77	14.142		

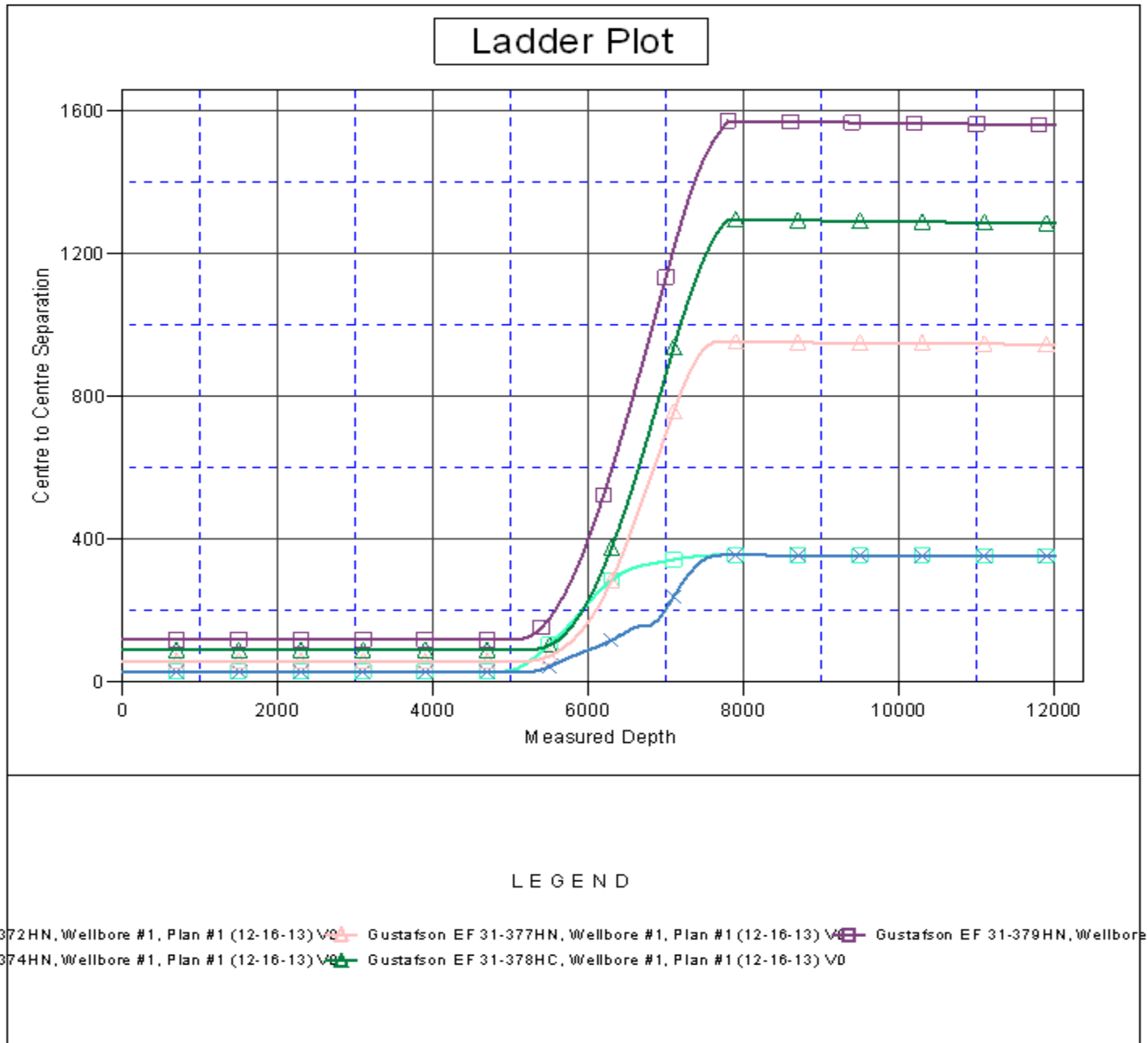
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Gustafson Pad Sec.31-T7N-R65W - Gustafson EF 31-379HN - Wellbore #1 - Plan #1 (12-16-13)													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	7,255.7	10,225.6	7,084.7	58.5	58.7	83.73	-2,838.9	-922.6	1,566.2	1,451.8	114.43	13.687		
10,400.0	7,255.7	10,325.6	7,084.7	60.3	60.5	83.73	-2,938.9	-922.8	1,565.9	1,447.8	118.10	13.259		
10,500.0	7,255.7	10,425.6	7,084.7	62.1	62.3	83.73	-3,038.9	-923.0	1,565.7	1,443.9	121.78	12.856		
10,600.0	7,255.7	10,525.6	7,084.7	64.0	64.1	83.73	-3,138.9	-923.2	1,565.4	1,439.9	125.47	12.476		
10,700.0	7,255.7	10,625.6	7,084.7	65.8	65.9	83.73	-3,238.9	-923.4	1,565.1	1,435.9	129.17	12.117		
10,800.0	7,255.7	10,725.6	7,084.7	67.6	67.8	83.73	-3,338.9	-923.7	1,564.8	1,432.0	132.88	11.777		
10,900.0	7,255.7	10,825.6	7,084.7	69.5	69.6	83.73	-3,438.9	-923.9	1,564.6	1,428.0	136.59	11.455		
11,000.0	7,255.7	10,925.6	7,084.7	71.3	71.5	83.72	-3,538.9	-924.1	1,564.3	1,424.0	140.31	11.149		
11,100.0	7,255.7	11,025.6	7,084.7	73.2	73.3	83.72	-3,638.9	-924.3	1,564.0	1,420.0	144.03	10.859		
11,200.0	7,255.7	11,125.6	7,084.7	75.0	75.2	83.72	-3,738.9	-924.5	1,563.8	1,416.0	147.76	10.583		
11,300.0	7,255.7	11,225.6	7,084.7	76.9	77.0	83.72	-3,838.9	-924.7	1,563.5	1,412.0	151.49	10.321		
11,400.0	7,255.7	11,325.6	7,084.7	78.7	78.9	83.72	-3,938.9	-924.9	1,563.2	1,408.0	155.23	10.070		
11,500.0	7,255.7	11,425.6	7,084.7	80.6	80.7	83.72	-4,038.9	-925.1	1,562.9	1,404.0	158.97	9.832		
11,600.0	7,255.7	11,525.6	7,084.7	82.5	82.6	83.72	-4,138.9	-925.3	1,562.7	1,399.9	162.72	9.604		
11,700.0	7,255.7	11,625.6	7,084.7	84.3	84.5	83.72	-4,238.9	-925.5	1,562.4	1,395.9	166.46	9.386		
11,800.0	7,255.7	11,725.6	7,084.7	86.2	86.3	83.72	-4,338.9	-925.7	1,562.1	1,391.9	170.22	9.177		
11,900.0	7,255.7	11,825.6	7,084.7	88.1	88.2	83.71	-4,438.9	-925.9	1,561.8	1,387.9	173.97	8.977		
11,968.2	7,255.7	11,893.8	7,084.7	89.3	89.5	83.71	-4,507.0	-926.0	1,561.7	1,385.1	176.53	8.846		
12,000.0	7,255.7	11,895.7	7,084.7	89.9	89.6	83.71	-4,508.9	-926.0	1,561.9	1,384.7	177.17	8.816		
12,009.1	7,255.7	11,895.7	7,084.7	90.1	89.6	83.71	-4,508.9	-926.0	1,562.0	1,384.7	177.34	8.808		

<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4844.7ft (RKB - 16.5)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °

Coordinates are relative to: Gustafson EF 31-373HC  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.51°





<b>Company:</b>	Great Western	<b>Local Co-ordinate Reference:</b>	Well Gustafson EF 31-373HC
<b>Project:</b>	SEC.31-T7N-R65W	<b>TVD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Reference Site:</b>	Gustafson Pad Sec.31-T7N-R65W	<b>MD Reference:</b>	WELL @ 4844.7ft (RKB - 16.5)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Gustafson EF 31-373HC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (12-16-13)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4844.7ft (RKB - 16.5)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °

Coordinates are relative to: Gustafson EF 31-373HC  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.51°

