



# **Ursa Operating Company, LLC**

**Rockies Region**

**B&V**

**B&V 11B-18-07-95**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**05 March, 2015**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Project:</b>	Rockies Region	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site:</b>	B&V	<b>North Reference:</b>	True
<b>Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	Rockies Region		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

Site		B&V			
Site Position:		Northing:	1,598,935.06 usft	Latitude:	39° 27' 0.591 N
From:	Lat/Long	Easting:	2,280,801.73 usft	Longitude:	108° 2' 49.963 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.61 °

Well	B&V 11B-18-07-95, SHL: 39.450121262 -108.047281008					
Well Position	+N/-S	-15.6 usft	Northing:	1,598,919.99 usft	Latitude:	39° 27' 0.436 N
	+E/-W	-19.5 usft	Easting:	2,280,781.79 usft	Longitude:	108° 2' 50.212 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	5,101.0 usft	Ground Level:	5,084.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	3/5/2015	9.89	65.59	51,851

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE		<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	177.29	

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,163.4	33.72	177.29	1,108.7	-275.1	13.0	3.50	3.50	0.00	177.29	
4,247.8	33.72	177.29	3,674.3	-1,985.3	94.0	0.00	0.00	0.00	0.00	
5,211.1	0.00	0.00	4,583.0	-2,260.4	107.0	3.50	-3.50	0.00	180.00	B&V 11B-18-07-95
6,865.1	0.00	0.00	6,237.0	-2,260.4	107.0	0.00	0.00	0.00	0.00	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Project:</b>	Rockies Region	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site:</b>	B&V	<b>North Reference:</b>	True
<b>Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
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	
Start Build 3.50										
300.0	3.50	177.29	299.9	-3.0	0.1	3.1	3.50	3.50	0.00	
400.0	7.00	177.29	399.5	-12.2	0.6	12.2	3.50	3.50	0.00	
500.0	10.50	177.29	498.3	-27.4	1.3	27.4	3.50	3.50	0.00	
600.0	14.00	177.29	596.0	-48.6	2.3	48.6	3.50	3.50	0.00	
700.0	17.50	177.29	692.3	-75.7	3.6	75.8	3.50	3.50	0.00	
800.0	21.00	177.29	786.7	-108.6	5.1	108.7	3.50	3.50	0.00	
900.0	24.50	177.29	878.9	-147.2	7.0	147.4	3.50	3.50	0.00	
1,000.0	28.00	177.29	968.5	-191.4	9.1	191.6	3.50	3.50	0.00	
1,100.0	31.50	177.29	1,055.3	-241.0	11.4	241.2	3.50	3.50	0.00	
1,163.4	33.72	177.29	1,108.7	-275.1	13.0	275.4	3.50	3.50	0.00	
Start 3084.4 hold at 1163.4 MD										
1,200.0	33.72	177.29	1,139.2	-295.4	14.0	295.7	0.00	0.00	0.00	
1,300.0	33.72	177.29	1,222.4	-350.8	16.6	351.2	0.00	0.00	0.00	
1,400.0	33.72	177.29	1,305.5	-406.3	19.2	406.7	0.00	0.00	0.00	
1,500.0	33.72	177.29	1,388.7	-461.7	21.9	462.2	0.00	0.00	0.00	
1,600.0	33.72	177.29	1,471.9	-517.2	24.5	517.8	0.00	0.00	0.00	
1,700.0	33.72	177.29	1,555.1	-572.6	27.1	573.3	0.00	0.00	0.00	
1,800.0	33.72	177.29	1,638.3	-628.1	29.7	628.8	0.00	0.00	0.00	
1,874.2	33.72	177.29	1,700.0	-669.2	31.7	670.0	0.00	0.00	0.00	
Surface Casing										
1,900.0	33.72	177.29	1,721.4	-683.5	32.4	684.3	0.00	0.00	0.00	
2,000.0	33.72	177.29	1,804.6	-739.0	35.0	739.8	0.00	0.00	0.00	
2,100.0	33.72	177.29	1,887.8	-794.4	37.6	795.3	0.00	0.00	0.00	
2,200.0	33.72	177.29	1,971.0	-849.9	40.2	850.8	0.00	0.00	0.00	
2,300.0	33.72	177.29	2,054.1	-905.3	42.9	906.3	0.00	0.00	0.00	
2,400.0	33.72	177.29	2,137.3	-960.8	45.5	961.8	0.00	0.00	0.00	
2,500.0	33.72	177.29	2,220.5	-1,016.2	48.1	1,017.3	0.00	0.00	0.00	
2,600.0	33.72	177.29	2,303.7	-1,071.7	50.7	1,072.9	0.00	0.00	0.00	
2,700.0	33.72	177.29	2,386.9	-1,127.1	53.4	1,128.4	0.00	0.00	0.00	
2,800.0	33.72	177.29	2,470.0	-1,182.5	56.0	1,183.9	0.00	0.00	0.00	
2,900.0	33.72	177.29	2,553.2	-1,238.0	58.6	1,239.4	0.00	0.00	0.00	
3,000.0	33.72	177.29	2,636.4	-1,293.4	61.2	1,294.9	0.00	0.00	0.00	
3,100.0	33.72	177.29	2,719.6	-1,348.9	63.9	1,350.4	0.00	0.00	0.00	
3,200.0	33.72	177.29	2,802.8	-1,404.3	66.5	1,405.9	0.00	0.00	0.00	
3,300.0	33.72	177.29	2,885.9	-1,459.8	69.1	1,461.4	0.00	0.00	0.00	
3,372.2	33.72	177.29	2,946.0	-1,499.8	71.0	1,501.5	0.00	0.00	0.00	
Williams Fork										
3,400.0	33.72	177.29	2,969.1	-1,515.2	71.7	1,516.9	0.00	0.00	0.00	
3,500.0	33.72	177.29	3,052.3	-1,570.7	74.4	1,572.4	0.00	0.00	0.00	
3,600.0	33.72	177.29	3,135.5	-1,626.1	77.0	1,628.0	0.00	0.00	0.00	
3,700.0	33.72	177.29	3,218.6	-1,681.6	79.6	1,683.5	0.00	0.00	0.00	
3,800.0	33.72	177.29	3,301.8	-1,737.0	82.2	1,739.0	0.00	0.00	0.00	
3,900.0	33.72	177.29	3,385.0	-1,792.5	84.9	1,794.5	0.00	0.00	0.00	
4,000.0	33.72	177.29	3,468.2	-1,847.9	87.5	1,850.0	0.00	0.00	0.00	
4,100.0	33.72	177.29	3,551.4	-1,903.4	90.1	1,905.5	0.00	0.00	0.00	
4,200.0	33.72	177.29	3,634.5	-1,958.8	92.7	1,961.0	0.00	0.00	0.00	
4,247.8	33.72	177.29	3,674.3	-1,985.3	94.0	1,987.5	0.00	0.00	0.00	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Project:</b>	Rockies Region	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site:</b>	B&V	<b>North Reference:</b>	True
<b>Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

## Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>Start Drop -3.50</b>									
4,300.0	31.89	177.29	3,718.2	-2,013.6	95.3	2,015.8	3.50	-3.50	0.00
4,400.0	28.39	177.29	3,804.6	-2,063.7	97.7	2,066.0	3.50	-3.50	0.00
4,500.0	24.89	177.29	3,894.0	-2,108.5	99.8	2,110.9	3.50	-3.50	0.00
4,600.0	21.39	177.29	3,985.9	-2,147.7	101.7	2,150.2	3.50	-3.50	0.00
4,623.6	20.56	177.29	4,008.0	-2,156.2	102.1	2,158.6	3.50	-3.50	0.00
<b>Top of Gas</b>									
4,700.0	17.89	177.29	4,080.1	-2,181.3	103.3	2,183.8	3.50	-3.50	0.00
4,800.0	14.39	177.29	4,176.2	-2,209.1	104.6	2,211.6	3.50	-3.50	0.00
4,900.0	10.89	177.29	4,273.7	-2,230.9	105.6	2,233.4	3.50	-3.50	0.00
5,000.0	7.39	177.29	4,372.4	-2,246.8	106.4	2,249.3	3.50	-3.50	0.00
5,100.0	3.89	177.29	4,471.9	-2,256.6	106.8	2,259.1	3.50	-3.50	0.00
5,200.0	0.39	177.29	4,571.9	-2,260.3	107.0	2,262.9	3.50	-3.50	0.00
5,211.1	0.00	0.00	4,583.0	-2,260.4	107.0	2,262.9	3.50	-3.50	0.00
<b>Back to Vertical - Start 1654.0 hold at 5211.1 MD</b>									
5,300.0	0.00	0.00	4,671.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
5,400.0	0.00	0.00	4,771.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
5,500.0	0.00	0.00	4,871.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
5,600.0	0.00	0.00	4,971.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,071.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
5,800.0	0.00	0.00	5,171.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,271.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,371.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
6,041.1	0.00	0.00	5,413.0	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
<b>Cameo</b>									
6,100.0	0.00	0.00	5,471.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
6,200.0	0.00	0.00	5,571.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
6,300.0	0.00	0.00	5,671.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
6,400.0	0.00	0.00	5,771.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
6,500.0	0.00	0.00	5,871.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
6,565.1	0.00	0.00	5,937.0	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
<b>Rollins</b>									
6,600.0	0.00	0.00	5,971.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,071.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
6,800.0	0.00	0.00	6,171.9	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
6,865.1	0.00	0.00	6,237.0	-2,260.4	107.0	2,262.9	0.00	0.00	0.00
<b>TD at 6865.1</b>									

## Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
B&V 11B-18-07-95 TGT	0.00	0.00	4,008.0	-2,260.4	107.0	1,596,657.50	2,280,825.39	39° 26' 38.095 N	108° 2' 48.848 W
- plan misses target center by 98.0usft at 4658.0usft MD (4040.3 TVD, -2167.9 N, 102.6 E)									
- Rectangle (sides W100.0 H40.0 D2,229.0)									
B&V 11B-18-07-95	0.00	0.00	4,583.0	-2,260.4	107.0	1,596,657.50	2,280,825.39	39° 26' 38.095 N	108° 2' 48.848 W
- plan hits target center									
- Point									

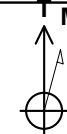
<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Project:</b>	Rockies Region	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site:</b>	B&V	<b>North Reference:</b>	True
<b>Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,372.2	2,946.0	Williams Fork		0.00	
4,623.6	4,008.0	Top of Gas		0.00	
6,041.1	5,413.0	Cameo		0.00	
6,565.1	5,937.0	Rollins		0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
200.0	200.0	0.0	0.0	Start Build 3.50	
1,163.4	1,108.7	-275.1	13.0	Start 3084.4 hold at 1163.4 MD	
1,874.2	1,700.0	-669.2	31.7	Surface Casing	
4,247.8	3,674.3	-1,985.3	94.0	Start Drop -3.50	
5,211.1	4,583.0	-2,260.4	107.0	Back to Vertical	
5,211.1	4,583.0	-2,260.4	107.0	Start 1654.0 hold at 5211.1 MD	
6,865.1	6,237.0	-2,260.4	107.0	TD at 6865.1	



Well Name: B&V 11B-18-07-95						
Surface Location: B&V						
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone						
Ground Elevation: 5084.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1598919.99	2280781.79	39° 27' 0.436 N	108° 2' 50.212 W	
Capstar 321 B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)						



Azimuths to True North  
Magnetic North: 9.89°  
Magnetic Field  
Strength: 51850.5nT  
Dip Angle: 65.59°  
Date: 3/5/2015  
Model: IGRF2010

B&V  
B&V 11B-18-07-95  
Design #1  
14:43, March 05 2015

## WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
B&V 11B-18-07-95 TGT	4008.0	-2260.4	107.0	1596657.50	2280825.389° 26'	38.095 N08° 2'	48.484 W	Rectangle (Sides: L4.0 W100.0)
B&V 11B-18-07-95	4583.0	-2260.4	107.0	1596657.50	2280825.389° 26'	38.095 N08° 2'	48.484 W	Point

## SECTION DETAILS

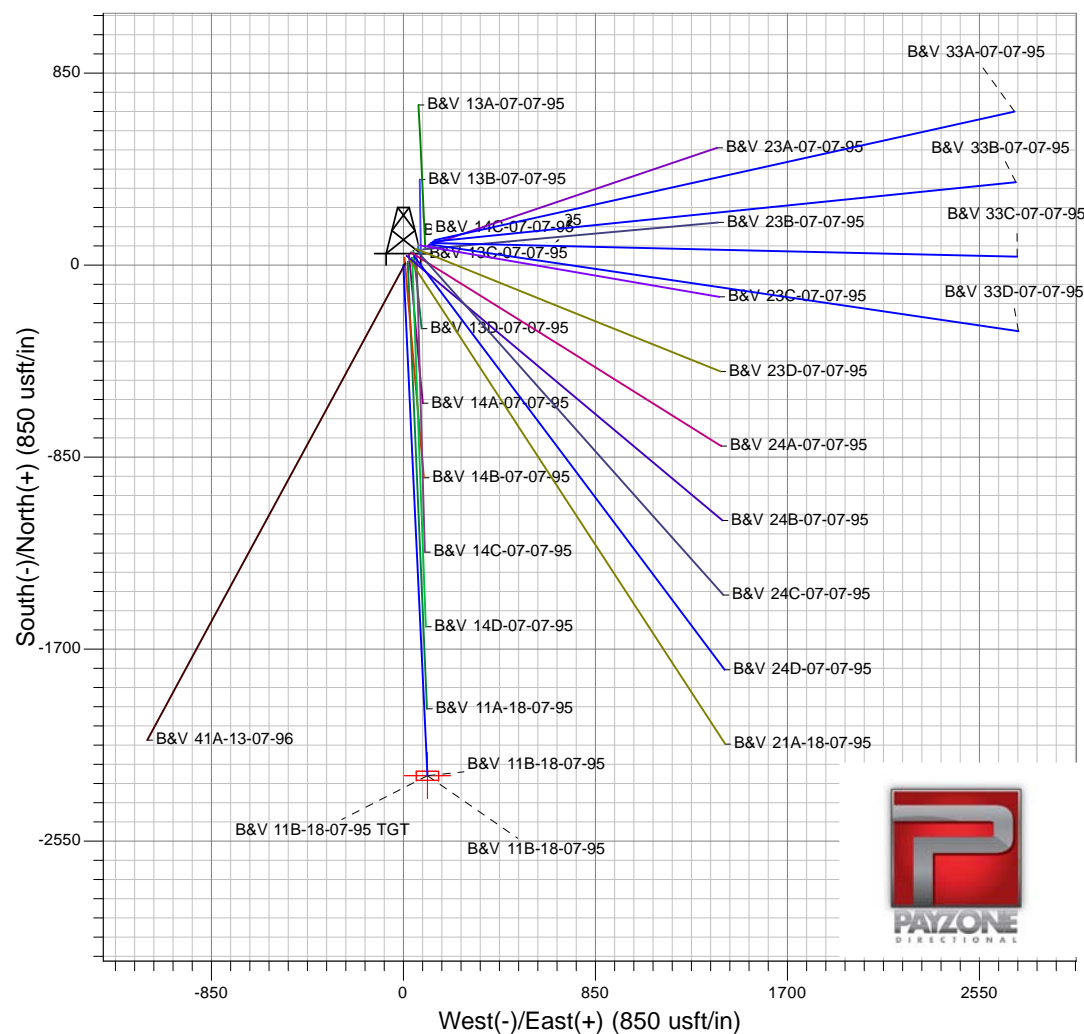
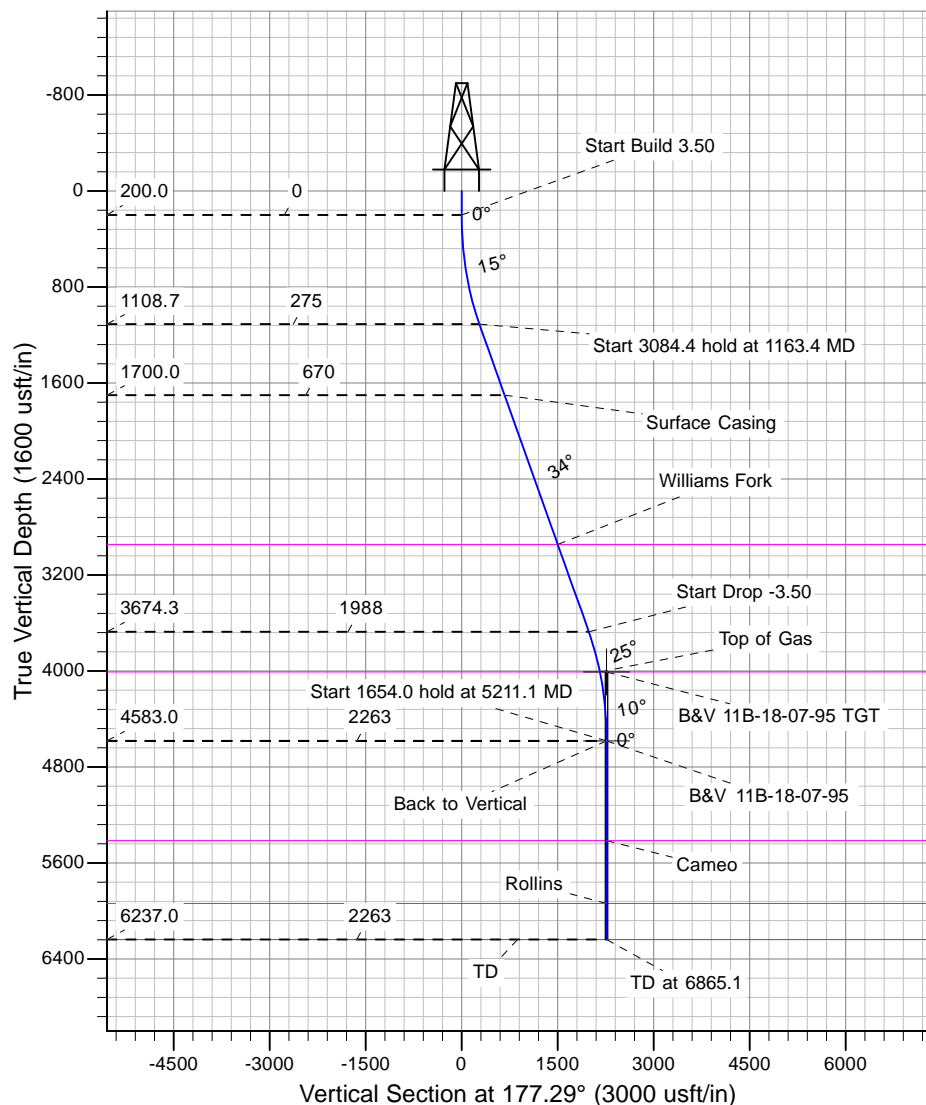
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1163.4	33.72	177.29	1108.7	-275.1	13.0	3.50	177.29	275.4	
4	4247.8	33.72	177.29	3674.3	-1985.3	94.0	0.00	0.00	1987.5	
5	5211.1	0.00	0.00	4583.0	-2260.4	107.0	3.50	180.00	2262.9	B&V 11B-18-07-95
6	6865.1	0.00	0.00	6237.0	-2260.4	107.0	0.00	0.00	2262.9	

## ANNOTATIONS

TVD	MD	Annotation
200.0	200.0	Start Build 3.50
1108.7	1163.4	Start 3084.4 hold at 1163.4 MD
1700.0	1874.2	Surface Casing
3674.3	4247.8	Start Drop -3.50
4583.0	5211.1	Back to Vertical
4583.0	5211.1	Start 1654.0 hold at 5211.1 MD
6237.0	6865.1	TD at 6865.1

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
2946.0	3372.2	Williams Fork	0.00	
4008.0	4623.6	Top of Gas	0.00	
5413.0	6041.1	Cameo	0.00	
5937.0	6565.1	Rollins	0.00	





# **Ursa Operating Company, LLC**

**Rockies Region**

**B&V**

**B&V 11B-18-07-95**

**Wellbore #1**

**Design #1**

## **Anticollision Report**

**05 March, 2015**



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Design #1
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria
<b>Interpolation Method:</b>	Stations
<b>Depth Range:</b>	Unlimited
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0 usft
<b>Warning Levels Evaluated at:</b>	2.00 Sigma
<b>Error Model:</b>	ISCWSA
<b>Scan Method:</b>	Closest Approach 3D
<b>Error Surface:</b>	Elliptical Conic
<b>Casing Method:</b>	Not applied

Survey Tool Program		Date	3/5/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	6,865.1	Design #1 (Wellbore #1)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
B&V						
B&V 11A-18-07-95 - Wellbore #1 - Design #2	200.0	196.0	25.0	24.4	39.559	CC, ES
B&V 11A-18-07-95 - Wellbore #1 - Design #2	4,200.0	4,225.0	246.6	214.7	7.745	SF
B&V 13A-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	124.9	124.3	197.815	CC, ES
B&V 13A-07-07-95 - Wellbore #1 - Design #1	700.0	665.7	197.1	194.0	62.013	SF
B&V 13B-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	100.0	99.3	158.252	CC, ES
B&V 13B-07-07-95 - Wellbore #1 - Design #1	700.0	682.3	158.6	155.5	50.892	SF
B&V 13C-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	102.4	101.8	162.203	CC, ES
B&V 13C-07-07-95 - Wellbore #1 - Design #1	700.0	688.3	167.0	163.9	54.456	SF
B&V 13D-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	78.3	77.6	123.915	CC, ES
B&V 13D-07-07-95 - Wellbore #1 - Design #1	600.0	592.0	120.6	118.1	47.696	SF
B&V 14A-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	54.8	54.2	86.768	CC, ES
B&V 14A-07-07-95 - Wellbore #1 - Design #1	500.0	494.3	79.8	77.7	39.465	SF
B&V 14B-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	33.6	33.0	53.220	CC, ES
B&V 14B-07-07-95 - Wellbore #1 - Design #1	400.0	395.5	45.6	44.1	29.550	SF
B&V 14C-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	75.0	74.3	118.685	CC, ES
B&V 14C-07-07-95 - Wellbore #1 - Design #1	3,500.0	3,549.7	512.8	488.7	21.225	SF
B&V 14D-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	50.0	49.3	79.126	CC, ES
B&V 14D-07-07-95 - Wellbore #1 - Design #1	4,000.0	4,012.6	466.7	437.8	16.140	SF
B&V 21A-18-07-95 - Wellbore #1 - Design #1	200.0	196.0	37.5	36.8	59.340	CC, ES
B&V 21A-18-07-95 - Wellbore #1 - Design #1	4,300.0	4,172.1	1,079.9	1,003.1	14.049	SF
B&V 23A-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	137.4	136.8	217.592	CC, ES
B&V 23A-07-07-95 - Wellbore #1 - Design #1	6,865.1	6,505.8	3,061.5	3,011.0	60.616	SF
B&V 23B-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	112.4	111.8	178.029	CC, ES
B&V 23B-07-07-95 - Wellbore #1 - Design #1	6,865.1	6,489.6	2,767.5	2,713.9	51.611	SF
B&V 23C-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	114.7	114.0	181.554	CC, ES
B&V 23C-07-07-95 - Wellbore #1 - Design #1	6,865.1	6,504.7	2,482.6	2,424.7	42.916	SF
B&V 23D-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	90.3	89.7	142.970	CC, ES
B&V 23D-07-07-95 - Wellbore #1 - Design #1	6,865.1	6,579.9	2,210.2	2,147.0	34.964	SF
B&V 24A-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	66.4	65.8	105.124	CC, ES
B&V 24A-07-07-95 - Wellbore #1 - Design #1	6,865.1	6,687.8	1,955.7	1,885.9	28.027	SF
B&V 24B-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	43.7	43.1	69.202	CC, ES
B&V 24B-07-07-95 - Wellbore #1 - Design #1	6,865.1	6,700.5	1,726.8	1,651.0	22.762	SF
B&V 24C-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	87.5	86.8	138.473	CC, ES
B&V 24C-07-07-95 - Wellbore #1 - Design #1	6,865.1	6,759.7	1,535.3	1,453.0	18.657	SF
B&V 24D-07-07-95 - Wellbore #1 - Design #1	200.0	196.0	62.5	61.8	98.910	CC, ES

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



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
B&V						
B&V 24D-07-07-95 - Wellbore #1 - Design #1	6,865.1	6,889.5	1,396.5	1,307.7	15.719	SF
B&V 33A-07-07-95 - Wellbore #1 - Design #1	200.0	200.0	177.4	176.8	278.912	CC, ES
B&V 33A-07-07-95 - Wellbore #1 - Design #1	6,865.1	7,044.5	3,924.0	3,852.5	54.841	SF
B&V 33B-07-07-95 - Wellbore #1 - Design #1	200.0	200.0	167.4	166.8	263.199	CC, ES
B&V 33B-07-07-95 - Wellbore #1 - Design #1	6,865.1	7,026.1	3,699.6	3,624.7	49.393	SF
B&V 33C-07-07-95 - Wellbore #1 - Design #1	200.0	200.0	157.4	156.8	247.485	CC, ES
B&V 33C-07-07-95 - Wellbore #1 - Design #1	6,865.1	7,028.2	3,477.8	3,399.0	44.152	SF
B&V 33D-07-07-95 - Wellbore #1 - Design #1	200.0	200.0	147.4	146.8	231.772	CC, ES
B&V 33D-07-07-95 - Wellbore #1 - Design #1	6,865.1	7,059.1	3,274.2	3,191.3	39.489	SF
B&V 41A-13-07-96 - Wellbore #1 - Design #1	200.0	196.0	12.5	11.9	19.782	CC, ES
B&V 41A-13-07-96 - Wellbore #1 - Design #1	300.0	295.9	14.5	13.4	13.532	SF

<b>Offset Design</b>													Offset Site Error: 0.0 usft
B&V - B&V 11A-18-07-95 - Wellbore #1 - Design #2													Offset Well Error: 0.0 usft
Survey Program: 0-MWD													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	51.34	15.6	19.5	25.3				
100.0	100.0	96.0	96.0	0.1	0.1	51.34	15.6	19.5	25.0	24.8	0.19	133.510	
200.0	200.0	196.0	196.0	0.3	0.3	51.34	15.6	19.5	25.0	24.4	0.63	39.559	CC, ES
300.0	299.9	295.9	295.9	0.5	0.5	-131.17	15.6	19.5	26.9	25.8	1.07	25.143	
400.0	399.5	395.5	395.5	0.8	0.8	-142.83	15.6	19.5	33.6	32.1	1.53	21.939	
500.0	498.3	496.7	496.6	1.1	1.0	-152.60	12.8	19.6	44.2	42.2	1.99	22.226	
600.0	596.0	598.8	598.3	1.5	1.2	-158.51	3.6	20.0	55.4	53.0	2.43	22.823	
700.0	692.3	701.7	700.0	2.0	1.4	-162.39	-12.1	20.7	66.9	64.0	2.90	23.061	
800.0	786.7	805.4	801.3	2.6	1.8	-165.11	-34.3	21.7	78.4	75.0	3.41	22.982	
900.0	878.9	909.9	901.7	3.3	2.3	-167.12	-63.1	22.9	89.7	85.8	3.96	22.654	
1,000.0	968.5	1,015.3	1,000.9	4.1	2.9	-168.65	-98.6	24.4	100.9	96.3	4.56	22.135	
1,100.0	1,055.3	1,121.4	1,098.3	5.1	3.7	-169.87	-140.7	26.2	111.7	106.5	5.20	21.478	
1,163.4	1,108.7	1,189.1	1,158.9	5.7	4.2	-170.51	-170.8	27.5	118.4	112.8	5.63	21.028	
1,200.0	1,139.2	1,228.4	1,193.5	6.1	4.6	-170.84	-189.4	28.3	121.8	115.9	5.93	20.538	
1,300.0	1,222.4	1,333.3	1,283.8	7.1	5.6	-171.35	-242.7	30.6	127.2	120.4	6.72	18.910	
1,400.0	1,305.5	1,433.2	1,369.1	8.2	6.5	-171.72	-294.6	32.8	131.2	123.6	7.58	17.311	
1,500.0	1,388.7	1,533.1	1,454.5	9.3	7.5	-172.07	-346.6	35.1	135.3	126.8	8.43	16.048	
1,600.0	1,471.9	1,633.1	1,539.8	10.3	8.5	-172.40	-398.5	37.3	139.3	130.1	9.28	15.009	
1,700.0	1,555.1	1,733.0	1,625.1	11.4	9.5	-172.70	-450.4	39.5	143.4	133.3	10.14	14.141	
1,800.0	1,638.3	1,832.9	1,710.5	12.5	10.5	-173.00	-502.3	41.8	147.5	136.5	11.00	13.404	
1,900.0	1,721.4	1,932.8	1,795.8	13.5	11.5	-173.27	-554.3	44.0	151.6	139.7	11.87	12.773	
2,000.0	1,804.6	2,032.7	1,881.1	14.6	12.5	-173.53	-606.2	46.2	155.7	142.9	12.73	12.227	
2,100.0	1,887.8	2,132.6	1,966.4	15.7	13.5	-173.78	-658.1	48.5	159.8	146.2	13.60	11.749	
2,200.0	1,971.0	2,232.5	2,051.8	16.7	14.5	-174.02	-710.1	50.7	163.9	149.4	14.46	11.328	
2,300.0	2,054.1	2,332.5	2,137.1	17.8	15.5	-174.24	-762.0	52.9	167.9	152.6	15.33	10.955	
2,400.0	2,137.3	2,432.4	2,222.4	18.9	16.5	-174.45	-813.9	55.2	172.0	155.8	16.20	10.621	
2,500.0	2,220.5	2,532.3	2,307.8	20.0	17.5	-174.66	-865.8	57.4	176.1	159.1	17.07	10.321	
2,600.0	2,303.7	2,632.2	2,393.1	21.0	18.5	-174.85	-917.8	59.6	180.2	162.3	17.94	10.050	
2,700.0	2,386.9	2,732.1	2,478.4	22.1	19.5	-175.04	-969.7	61.9	184.3	165.5	18.80	9.803	
2,800.0	2,470.0	2,832.0	2,563.8	23.2	20.5	-175.21	-1,021.6	64.1	188.5	168.8	19.67	9.579	

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 11A-18-07-95 - Wellbore #1 - Design #2											Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,900.0	2,553.2	2,931.9	2,649.1	24.3	21.5	-175.38	-1,073.5	66.3	192.6	172.0	20.54	9.373		
3,000.0	2,636.4	3,031.9	2,734.4	25.3	22.5	-175.55	-1,125.5	68.6	196.7	175.3	21.41	9.184		
3,100.0	2,719.6	3,131.8	2,819.8	26.4	23.5	-175.70	-1,177.4	70.8	200.8	178.5	22.28	9.010		
3,200.0	2,802.8	3,231.7	2,905.1	27.5	24.5	-175.85	-1,229.3	73.0	204.9	181.7	23.15	8.849		
3,300.0	2,885.9	3,331.6	2,990.4	28.5	25.5	-175.99	-1,281.3	75.3	209.0	185.0	24.02	8.699		
3,400.0	2,969.1	3,431.5	3,075.7	29.6	26.5	-176.13	-1,333.2	77.5	213.1	188.2	24.90	8.560		
3,500.0	3,052.3	3,531.4	3,161.1	30.7	27.5	-176.27	-1,385.1	79.7	217.2	191.5	25.77	8.430		
3,600.0	3,135.5	3,631.3	3,246.4	31.8	28.5	-176.39	-1,437.0	82.0	221.3	194.7	26.64	8.309		
3,700.0	3,218.6	3,731.3	3,331.7	32.8	29.5	-176.52	-1,489.0	84.2	225.5	198.0	27.51	8.195		
3,800.0	3,301.8	3,831.2	3,417.1	33.9	30.6	-176.64	-1,540.9	86.4	229.6	201.2	28.38	8.088		
3,900.0	3,385.0	3,931.1	3,502.4	35.0	31.6	-176.75	-1,592.8	88.6	233.7	204.4	29.26	7.988		
4,000.0	3,468.2	4,031.0	3,587.7	36.1	32.6	-176.86	-1,644.7	90.9	237.8	207.7	30.13	7.893		
4,100.0	3,551.4	4,130.9	3,673.1	37.1	33.6	-176.97	-1,696.7	93.1	241.9	210.9	31.00	7.804		
4,200.0	3,634.5	4,225.0	3,753.7	38.2	34.4	-177.07	-1,745.2	95.2	246.6	214.7	31.84	7.745 SF		
4,247.8	3,674.3	4,266.4	3,789.8	38.7	34.7	-177.13	-1,765.4	96.1	250.3	218.1	32.21	7.770		
4,300.0	3,718.2	4,311.4	3,829.6	39.2	35.0	-177.20	-1,786.4	97.0	254.9	222.2	32.65	7.806		
4,400.0	3,804.6	4,400.0	3,909.6	39.9	35.6	-177.33	-1,824.3	98.6	263.0	229.7	33.35	7.886		
4,500.0	3,894.0	4,483.3	3,986.6	40.6	36.0	-177.43	-1,856.0	100.0	270.3	236.4	33.87	7.981		
4,600.0	3,985.9	4,568.8	4,067.2	41.1	36.5	-177.52	-1,884.5	101.2	276.7	242.5	34.22	8.087		
4,700.0	4,080.1	4,654.1	4,149.0	41.7	36.8	-177.59	-1,908.7	102.2	282.2	247.8	34.39	8.208		
4,800.0	4,176.2	4,739.2	4,231.7	42.1	37.1	-177.65	-1,928.5	103.1	286.9	252.5	34.38	8.345		
4,900.0	4,273.7	4,824.1	4,315.3	42.4	37.4	-177.69	-1,944.0	103.7	290.6	256.4	34.19	8.500		
5,000.0	4,372.4	4,909.0	4,399.4	42.7	37.6	-177.72	-1,955.1	104.2	293.4	259.5	33.82	8.675		
5,100.0	4,471.9	5,000.0	4,490.1	42.9	37.7	-177.74	-1,962.1	104.5	295.3	262.0	33.28	8.874		
5,102.7	4,474.6	5,000.0	4,490.1	42.9	37.7	-177.74	-1,962.1	104.5	295.3	262.0	33.26	8.879		
5,200.0	4,571.9	5,081.9	4,572.0	42.9	37.8	-177.75	-1,964.2	104.6	296.2	263.6	32.56	9.097		
5,202.6	4,574.5	5,081.9	4,572.0	42.9	37.8	-177.75	-1,964.2	104.6	296.2	263.6	32.53	9.103		
5,211.1	4,583.0	5,088.9	4,579.0	43.0	37.8	-0.46	-1,964.2	104.6	296.2	263.7	32.47	9.123		
5,300.0	4,671.9	5,177.8	4,667.9	43.0	37.9	-0.46	-1,964.2	104.6	296.2	263.5	32.66	9.070		
5,400.0	4,771.9	5,277.8	4,767.9	43.0	37.9	-0.46	-1,964.2	104.6	296.2	263.3	32.87	9.012		
5,500.0	4,871.9	5,377.8	4,867.9	43.1	37.9	-0.46	-1,964.2	104.6	296.2	263.1	33.08	8.954		
5,600.0	4,971.9	5,477.8	4,967.9	43.1	38.0	-0.46	-1,964.2	104.6	296.2	262.9	33.30	8.895		
5,700.0	5,071.9	5,577.8	5,067.9	43.2	38.0	-0.46	-1,964.2	104.6	296.2	262.7	33.52	8.835		
5,800.0	5,171.9	5,677.8	5,167.9	43.2	38.1	-0.46	-1,964.2	104.6	296.2	262.4	33.75	8.775		
5,900.0	5,271.9	5,777.8	5,267.9	43.2	38.1	-0.46	-1,964.2	104.6	296.2	262.2	33.99	8.715		
6,000.0	5,371.9	5,877.8	5,367.9	43.3	38.2	-0.46	-1,964.2	104.6	296.2	262.0	34.22	8.655		
6,100.0	5,471.9	5,977.8	5,467.9	43.3	38.3	-0.46	-1,964.2	104.6	296.2	261.7	34.46	8.594		
6,200.0	5,571.9	6,077.8	5,567.9	43.4	38.3	-0.46	-1,964.2	104.6	296.2	261.5	34.71	8.533		
6,300.0	5,671.9	6,177.8	5,667.9	43.4	38.4	-0.46	-1,964.2	104.6	296.2	261.2	34.96	8.472		
6,400.0	5,771.9	6,277.8	5,767.9	43.5	38.4	-0.46	-1,964.2	104.6	296.2	261.0	35.21	8.411		
6,500.0	5,871.9	6,377.8	5,867.9	43.5	38.5	-0.46	-1,964.2	104.6	296.2	260.7	35.47	8.350		
6,600.0	5,971.9	6,477.8	5,967.9	43.6	38.5	-0.46	-1,964.2	104.6	296.2	260.5	35.73	8.289		
6,700.0	6,071.9	6,577.8	6,067.9	43.6	38.6	-0.46	-1,964.2	104.6	296.2	260.2	36.00	8.228		
6,800.0	6,171.9	6,677.8	6,167.9	43.7	38.7	-0.46	-1,964.2	104.6	296.2	259.9	36.27	8.167		
6,865.1	6,237.0	6,742.9	6,233.0	43.7	38.7	-0.46	-1,964.2	104.6	296.2	259.7	36.44	8.128		

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 13A-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	51.33	78.1	97.5	125.0						
100.0	100.0	96.0	96.0	0.1	0.1	51.33	78.1	97.5	124.9	124.8	0.19	667.620			
200.0	200.0	196.0	196.0	0.3	0.3	51.33	78.1	97.5	124.9	124.3	0.63	197.815	CC, ES		
300.0	299.9	295.9	295.9	0.5	0.5	-127.03	78.1	97.5	126.8	125.7	1.07	118.705			
400.0	399.5	395.5	395.5	0.8	0.8	-130.02	78.1	97.5	132.5	130.9	1.53	86.824			
500.0	498.3	489.5	489.5	1.1	1.0	-134.76	80.2	97.4	144.3	142.3	2.03	71.038			
600.0	596.0	580.0	579.7	1.5	1.2	-140.71	86.5	97.1	165.5	162.9	2.59	63.812			
700.0	692.3	665.7	664.8	2.0	1.4	-146.50	96.5	96.7	197.1	194.0	3.18	62.013	SF		
800.0	786.7	745.5	743.6	2.6	1.6	-151.35	109.2	96.1	239.2	235.5	3.77	63.424			
900.0	878.9	828.5	825.2	3.3	1.9	-155.55	124.3	95.4	289.9	285.5	4.33	66.948			
1,000.0	968.5	908.6	904.0	4.1	2.2	-158.70	139.0	94.7	346.6	341.7	4.86	71.327			
1,100.0	1,055.3	984.9	978.9	5.1	2.5	-161.04	152.9	94.0	408.9	403.5	5.38	75.960			
1,163.4	1,108.7	1,031.1	1,024.4	5.7	2.6	-162.19	161.3	93.6	451.0	445.3	5.71	78.949			
1,200.0	1,139.2	1,057.3	1,050.2	6.1	2.7	-163.11	166.1	93.4	475.9	470.0	5.90	80.669			
1,300.0	1,222.4	1,129.0	1,120.6	7.1	3.0	-165.21	179.2	92.8	544.3	537.9	6.41	84.873			
1,400.0	1,305.5	1,200.6	1,191.1	8.2	3.3	-166.86	192.3	92.1	613.0	606.1	6.93	88.422			
1,500.0	1,388.7	1,272.2	1,261.5	9.3	3.6	-168.18	205.3	91.5	681.9	674.5	7.45	91.490			
1,600.0	1,471.9	1,343.9	1,331.9	10.3	3.8	-169.26	218.4	90.9	751.0	743.0	8.00	93.918			
1,700.0	1,555.1	1,415.5	1,402.3	11.4	4.1	-170.16	231.5	90.3	820.2	811.7	8.52	96.236			
1,800.0	1,638.3	1,487.1	1,472.8	12.5	4.4	-170.92	244.6	89.7	889.5	880.4	9.06	98.148			
1,900.0	1,721.4	1,558.8	1,543.2	13.5	4.7	-171.58	257.6	89.0	958.8	949.2	9.61	99.805			
2,000.0	1,804.6	1,630.4	1,613.6	14.6	4.9	-172.15	270.7	88.4	1,028.2	1,018.1	10.15	101.255			
2,100.0	1,887.8	1,702.0	1,684.1	15.7	5.2	-172.64	283.8	87.8	1,097.7	1,087.0	10.71	102.528			
2,200.0	1,971.0	1,773.7	1,754.5	16.7	5.5	-173.08	296.9	87.2	1,167.2	1,155.9	11.26	103.645			
2,300.0	2,054.1	1,845.3	1,824.9	17.8	5.8	-173.47	309.9	86.6	1,236.7	1,224.9	11.82	104.636			
2,400.0	2,137.3	1,917.0	1,895.3	18.9	6.1	-173.81	323.0	85.9	1,306.3	1,293.9	12.38	105.520			
2,500.0	2,220.5	1,988.6	1,965.8	20.0	6.4	-174.13	336.1	85.3	1,375.8	1,362.9	12.94	106.309			
2,600.0	2,303.7	2,060.2	2,036.2	21.0	6.6	-174.41	349.2	84.7	1,445.4	1,431.9	13.51	107.016			
2,700.0	2,386.9	2,131.9	2,106.6	22.1	6.9	-174.67	362.2	84.1	1,515.1	1,501.0	14.07	107.655			
2,800.0	2,470.0	2,203.5	2,177.1	23.2	7.2	-174.90	375.3	83.5	1,584.7	1,570.0	14.64	108.233			
2,900.0	2,553.2	2,275.1	2,247.5	24.3	7.5	-175.11	388.4	82.8	1,654.3	1,639.1	15.21	108.755			
3,000.0	2,636.4	2,346.8	2,317.9	25.3	7.8	-175.31	401.5	82.2	1,724.0	1,708.2	15.78	109.230			
3,100.0	2,719.6	2,418.4	2,388.3	26.4	8.1	-175.49	414.5	81.6	1,793.6	1,777.3	16.36	109.665			
3,200.0	2,802.8	2,490.0	2,458.8	27.5	8.4	-175.66	427.6	81.0	1,863.3	1,846.4	16.93	110.063			
3,300.0	2,885.9	2,561.7	2,529.2	28.5	8.6	-175.82	440.7	80.4	1,933.0	1,915.5	17.50	110.426			
3,400.0	2,969.1	2,633.3	2,599.6	29.6	8.9	-175.96	453.8	79.7	2,002.7	1,984.6	18.08	110.761			
3,500.0	3,052.3	2,704.9	2,670.1	30.7	9.2	-176.10	466.8	79.1	2,072.3	2,053.7	18.66	111.070			
3,600.0	3,135.5	2,776.6	2,740.5	31.8	9.5	-176.23	479.9	78.5	2,142.0	2,122.8	19.24	111.354			
3,700.0	3,218.6	2,848.2	2,810.9	32.8	9.8	-176.34	493.0	77.9	2,211.7	2,191.9	19.82	111.617			
3,800.0	3,301.8	2,919.8	2,881.3	33.9	10.1	-176.46	506.1	77.3	2,281.4	2,261.0	20.40	111.861			
3,900.0	3,385.0	2,991.5	2,951.8	35.0	10.4	-176.56	519.1	76.6	2,351.1	2,330.2	20.98	112.088			
4,000.0	3,468.2	3,063.1	3,022.2	36.1	10.6	-176.66	532.2	76.0	2,420.9	2,399.3	21.56	112.298			
4,100.0	3,551.4	3,134.7	3,092.6	37.1	10.9	-176.75	545.3	75.4	2,490.6	2,468.4	22.14	112.493			
4,200.0	3,634.5	3,206.4	3,163.1	38.2	11.2	-176.84	558.4	74.8	2,560.3	2,537.6	22.72	112.676			
4,247.8	3,674.3	3,240.6	3,196.7	38.7	11.4	-176.88	564.6	74.5	2,593.6	2,570.6	23.00	112.758			
4,300.0	3,718.2	3,278.6	3,234.0	39.2	11.5	-177.02	571.5	74.2	2,629.4	2,606.0	23.44	112.811			
4,400.0	3,804.6	3,354.4	3,308.6	39.9	11.8	-177.24	585.4	73.5	2,694.5	2,670.3	24.21	111.317			
4,500.0	3,894.0	3,434.1	3,386.9	40.6	12.1	-177.42	599.9	72.8	2,754.9	2,730.0	24.89	110.691			
4,600.0	3,985.9	3,517.3	3,468.7	41.1	12.5	-177.57	615.1	72.1	2,810.3	2,784.8	25.48	110.298			
4,700.0	4,080.1	3,603.7	3,553.7	41.7	12.8	-177.70	630.9	71.3	2,860.5	2,834.5	25.97	110.134			
4,800.0	4,176.2	3,693.1	3,641.6	42.1	13.2	-177.80	647.2	70.6	2,905.3	2,879.0	26.37	110.197			

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 13A-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft	
Survey Program:		0-MWD											Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
4,900.0	4,273.7	4,326.0	4,269.7	42.4	14.7	-177.99	709.1	67.6	2,940.3	2,912.7	27.63	106.411				
5,000.0	4,372.4	4,424.7	4,368.4	42.7	14.9	-178.02	709.1	67.6	2,956.2	2,928.4	27.79	106.371				
5,100.0	4,471.9	4,524.2	4,467.9	42.9	15.0	-178.04	709.1	67.6	2,966.0	2,938.2	27.83	106.587				
5,200.0	4,571.9	4,624.1	4,567.9	42.9	15.2	-178.05	709.1	67.6	2,969.7	2,942.0	27.74	107.065				
5,211.1	4,583.0	4,635.2	4,579.0	43.0	15.2	-0.76	709.1	67.6	2,969.8	2,942.0	27.72	107.131				
5,300.0	4,671.9	4,724.1	4,667.9	43.0	15.3	-0.76	709.1	67.6	2,969.8	2,941.8	27.99	106.084				
5,400.0	4,771.9	4,824.1	4,767.9	43.0	15.4	-0.76	709.1	67.6	2,969.8	2,941.5	28.30	104.947				
5,500.0	4,871.9	4,924.1	4,867.9	43.1	15.6	-0.76	709.1	67.6	2,969.8	2,941.2	28.60	103.823				
5,600.0	4,971.9	5,024.1	4,967.9	43.1	15.7	-0.76	709.1	67.6	2,969.8	2,940.8	28.91	102.712				
5,700.0	5,071.9	5,124.1	5,067.9	43.2	15.9	-0.76	709.1	67.6	2,969.8	2,940.5	29.23	101.613				
5,800.0	5,171.9	5,224.1	5,167.9	43.2	16.0	-0.76	709.1	67.6	2,969.8	2,940.2	29.54	100.529				
5,900.0	5,271.9	5,324.1	5,267.9	43.2	16.2	-0.76	709.1	67.6	2,969.8	2,939.9	29.86	99.457				
6,000.0	5,371.9	5,424.1	5,367.9	43.3	16.4	-0.76	709.1	67.6	2,969.8	2,939.6	30.18	98.399				
6,100.0	5,471.9	5,524.1	5,467.9	43.3	16.5	-0.76	709.1	67.6	2,969.8	2,939.3	30.50	97.355				
6,200.0	5,571.9	5,624.1	5,567.9	43.4	16.7	-0.76	709.1	67.6	2,969.8	2,938.9	30.83	96.324				
6,300.0	5,671.9	5,724.1	5,667.9	43.4	16.8	-0.76	709.1	67.6	2,969.8	2,938.6	31.16	95.308				
6,400.0	5,771.9	5,824.1	5,767.9	43.5	17.0	-0.76	709.1	67.6	2,969.8	2,938.3	31.49	94.305				
6,500.0	5,871.9	5,924.1	5,867.9	43.5	17.2	-0.76	709.1	67.6	2,969.8	2,937.9	31.82	93.315				
6,600.0	5,971.9	6,024.1	5,967.9	43.6	17.3	-0.76	709.1	67.6	2,969.8	2,937.6	32.16	92.340				
6,700.0	6,071.9	6,124.1	6,067.9	43.6	17.5	-0.76	709.1	67.6	2,969.8	2,937.3	32.50	91.378				
6,800.0	6,171.9	6,224.1	6,167.9	43.7	17.7	-0.76	709.1	67.6	2,969.8	2,936.9	32.84	90.430				
6,865.1	6,237.0	6,289.2	6,233.0	43.7	17.8	-0.76	709.1	67.6	2,969.8	2,936.7	33.06	89.819				

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													B&V - B&V 13B-07-07-95 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	51.33	62.5	78.0	100.0								
100.0	100.0	96.0	96.0	0.1	0.1	51.33	62.5	78.0	100.0	99.8	0.19	534.096					
200.0	200.0	196.0	196.0	0.3	0.3	51.33	62.5	78.0	100.0	99.3	0.63	158.252	CC, ES				
300.0	299.9	295.9	295.9	0.5	0.5	-127.30	62.5	78.0	101.8	100.7	1.07	95.300					
400.0	399.5	395.5	395.5	0.8	0.8	-131.02	62.5	78.0	107.6	106.0	1.53	70.476					
500.0	498.3	494.3	494.3	1.1	1.0	-136.30	62.5	78.0	118.1	116.1	2.03	58.178					
600.0	596.0	592.0	592.0	1.5	1.2	-142.15	62.5	78.0	134.4	131.8	2.57	52.361					
700.0	692.3	682.3	682.3	2.0	1.4	-147.71	64.2	78.0	158.6	155.5	3.12	50.892	SF				
800.0	786.7	767.3	767.1	2.6	1.6	-152.76	69.8	77.9	193.3	189.6	3.69	52.447					
900.0	878.9	854.3	853.7	3.3	1.8	-157.13	77.9	77.8	237.0	232.7	4.24	55.906					
1,000.0	968.5	939.4	938.5	4.1	2.0	-160.43	85.9	77.6	286.9	282.1	4.76	60.308					
1,100.0	1,055.3	1,021.2	1,019.8	5.1	2.2	-162.89	93.6	77.5	342.5	337.2	5.27	64.985					
1,163.4	1,108.7	1,071.1	1,069.5	5.7	2.4	-164.13	98.3	77.4	380.5	374.9	5.59	68.018					
1,200.0	1,139.2	1,099.5	1,097.8	6.1	2.4	-165.00	101.0	77.3	403.1	397.3	5.78	69.690					
1,300.0	1,222.4	1,177.1	1,175.1	7.1	2.6	-166.96	108.3	77.2	465.1	458.8	6.31	73.724					
1,400.0	1,305.5	1,254.7	1,252.3	8.2	2.8	-168.47	115.6	77.1	527.4	520.5	6.84	77.092					
1,500.0	1,388.7	1,332.3	1,329.6	9.3	3.0	-169.66	122.9	76.9	589.8	582.4	7.38	79.922					
1,600.0	1,471.9	1,409.9	1,406.8	10.3	3.2	-170.62	130.2	76.8	652.3	644.4	7.92	82.315					
1,700.0	1,555.1	1,487.5	1,484.1	11.4	3.5	-171.42	137.5	76.7	715.0	706.5	8.48	84.326					
1,800.0	1,638.3	1,565.1	1,561.3	12.5	3.7	-172.09	144.8	76.5	777.7	768.6	9.03	86.083					
1,900.0	1,721.4	1,642.7	1,638.6	13.5	3.9	-172.67	152.1	76.4	840.5	830.9	9.59	87.602					
2,000.0	1,804.6	1,720.3	1,715.8	14.6	4.1	-173.16	159.4	76.3	903.3	893.1	10.16	88.925					
2,100.0	1,887.8	1,797.8	1,793.1	15.7	4.3	-173.59	166.7	76.1	966.1	955.4	10.72	90.085					
2,200.0	1,971.0	1,875.4	1,870.3	16.7	4.5	-173.96	174.0	76.0	1,029.0	1,017.7	11.29	91.106					
2,300.0	2,054.1	1,953.0	1,947.6	17.8	4.7	-174.30	181.3	75.9	1,091.9	1,080.0	11.87	92.012					
2,400.0	2,137.3	2,030.6	2,024.8	18.9	4.9	-174.59	188.6	75.7	1,154.8	1,142.4	12.44	92.821					
2,500.0	2,220.5	2,108.2	2,102.0	20.0	5.2	-174.86	195.9	75.6	1,217.8	1,204.7	13.02	93.546					
2,600.0	2,303.7	2,185.8	2,179.3	21.0	5.4	-175.10	203.2	75.5	1,280.7	1,267.1	13.60	94.197					
2,700.0	2,386.9	2,263.4	2,256.5	22.1	5.6	-175.32	210.5	75.3	1,343.7	1,329.5	14.18	94.785					
2,800.0	2,470.0	2,341.0	2,333.8	23.2	5.8	-175.52	217.7	75.2	1,406.7	1,391.9	14.76	95.319					
2,900.0	2,553.2	2,418.6	2,411.0	24.3	6.0	-175.70	225.0	75.1	1,469.6	1,454.3	15.34	95.805					
3,000.0	2,636.4	2,496.1	2,488.3	25.3	6.2	-175.86	232.3	74.9	1,532.6	1,516.7	15.92	96.249					
3,100.0	2,719.6	2,573.7	2,565.5	26.4	6.4	-176.02	239.6	74.8	1,595.6	1,579.1	16.51	96.654					
3,200.0	2,802.8	2,651.3	2,642.8	27.5	6.7	-176.16	246.9	74.7	1,658.7	1,641.6	17.09	97.027					
3,300.0	2,885.9	2,728.9	2,720.0	28.5	6.9	-176.29	254.2	74.5	1,721.7	1,704.0	17.68	97.370					
3,400.0	2,969.1	2,806.5	2,797.3	29.6	7.1	-176.41	261.5	74.4	1,784.7	1,766.4	18.27	97.686					
3,500.0	3,052.3	2,884.1	2,874.5	30.7	7.3	-176.53	268.8	74.3	1,847.7	1,828.9	18.86	97.979					
3,600.0	3,135.5	2,961.7	2,951.7	31.8	7.5	-176.63	276.1	74.1	1,910.7	1,891.3	19.45	98.249					
3,700.0	3,218.6	3,039.3	3,029.0	32.8	7.7	-176.73	283.4	74.0	1,973.8	1,953.7	20.04	98.501					
3,800.0	3,301.8	3,116.9	3,106.2	33.9	8.0	-176.83	290.7	73.9	2,036.8	2,016.2	20.63	98.735					
3,900.0	3,385.0	3,194.5	3,183.5	35.0	8.2	-176.91	298.0	73.7	2,099.8	2,078.6	21.22	98.953					
4,000.0	3,468.2	3,272.0	3,260.7	36.1	8.4	-177.00	305.3	73.6	2,162.9	2,141.1	21.81	99.156					
4,100.0	3,551.4	3,349.6	3,338.0	37.1	8.6	-177.07	312.6	73.5	2,225.9	2,203.5	22.41	99.345					
4,200.0	3,634.5	3,427.2	3,415.2	38.2	8.8	-177.15	319.9	73.3	2,289.0	2,266.0	23.00	99.523					
4,247.8	3,674.3	3,464.3	3,452.1	38.7	8.9	-177.18	323.4	73.3	2,319.1	2,295.8	23.28	99.603					
4,300.0	3,718.2	3,505.3	3,493.0	39.2	9.0	-177.29	327.3	73.2	2,351.4	2,327.7	23.71	99.153					
4,400.0	3,804.6	3,586.7	3,574.0	39.9	9.3	-177.46	334.9	73.1	2,409.4	2,385.0	24.46	98.490					
4,500.0	3,894.0	3,671.5	3,658.4	40.6	9.5	-177.60	342.9	72.9	2,462.5	2,437.3	25.12	98.021					
4,600.0	3,985.9	3,759.3	3,745.8	41.1	9.7	-177.72	351.2	72.8	2,510.2	2,484.5	25.68	97.741					
4,700.0	4,080.1	3,849.9	3,836.0	41.7	10.0	-177.81	359.7	72.6	2,552.5	2,526.4	26.14	97.648					
4,800.0	4,176.2	4,186.8	4,172.2	42.1	10.7	-177.94	379.1	72.3	2,588.4	2,561.5	26.91	96.201					

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 13B-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,284.4	4,269.7	42.4	10.9	-177.99	379.1	72.3	2,610.3	2,583.1	27.14	96.162			
5,000.0	4,372.4	4,383.1	4,368.4	42.7	11.1	-178.02	379.1	72.3	2,626.2	2,598.9	27.27	96.313			
5,100.0	4,471.9	4,482.6	4,467.9	42.9	11.3	-178.04	379.1	72.3	2,636.0	2,608.7	27.27	96.672			
5,200.0	4,571.9	4,582.5	4,567.9	42.9	11.5	-178.04	379.1	72.3	2,639.7	2,612.6	27.14	97.247			
5,211.1	4,583.0	4,593.7	4,579.0	43.0	11.5	-0.75	379.1	72.3	2,639.7	2,612.6	27.12	97.322			
5,300.0	4,671.9	4,682.5	4,667.9	43.0	11.7	-0.75	379.1	72.3	2,639.7	2,612.3	27.41	96.301			
5,400.0	4,771.9	4,782.5	4,767.9	43.0	11.9	-0.75	379.1	72.3	2,639.7	2,612.0	27.73	95.195			
5,500.0	4,871.9	4,882.5	4,867.9	43.1	12.1	-0.75	379.1	72.3	2,639.7	2,611.7	28.05	94.105			
5,600.0	4,971.9	4,982.5	4,967.9	43.1	12.3	-0.75	379.1	72.3	2,639.7	2,611.4	28.37	93.031			
5,700.0	5,071.9	5,082.5	5,067.9	43.2	12.5	-0.75	379.1	72.3	2,639.7	2,611.0	28.70	91.974			
5,800.0	5,171.9	5,182.5	5,167.9	43.2	12.7	-0.75	379.1	72.3	2,639.7	2,610.7	29.03	90.933			
5,900.0	5,271.9	5,282.5	5,267.9	43.2	12.9	-0.75	379.1	72.3	2,639.7	2,610.4	29.36	89.908			
6,000.0	5,371.9	5,382.5	5,367.9	43.3	13.1	-0.75	379.1	72.3	2,639.7	2,610.0	29.69	88.898			
6,100.0	5,471.9	5,482.5	5,467.9	43.3	13.3	-0.75	379.1	72.3	2,639.7	2,609.7	30.03	87.905			
6,200.0	5,571.9	5,582.5	5,567.9	43.4	13.5	-0.75	379.1	72.3	2,639.7	2,609.4	30.37	86.927			
6,300.0	5,671.9	5,682.5	5,667.9	43.4	13.7	-0.75	379.1	72.3	2,639.7	2,609.0	30.71	85.964			
6,400.0	5,771.9	5,782.5	5,767.9	43.5	13.9	-0.75	379.1	72.3	2,639.7	2,608.7	31.05	85.016			
6,500.0	5,871.9	5,882.5	5,867.9	43.5	14.1	-0.75	379.1	72.3	2,639.7	2,608.3	31.39	84.084			
6,600.0	5,971.9	5,982.5	5,967.9	43.6	14.3	-0.75	379.1	72.3	2,639.7	2,608.0	31.74	83.166			
6,700.0	6,071.9	6,082.5	6,067.9	43.6	14.5	-0.75	379.1	72.3	2,639.7	2,607.7	32.09	82.264			
6,800.0	6,171.9	6,182.5	6,167.9	43.7	14.7	-0.75	379.1	72.3	2,639.7	2,607.3	32.44	81.375			
6,865.1	6,237.0	6,247.7	6,233.0	43.7	14.8	-0.75	379.1	72.3	2,639.7	2,607.1	32.67	80.804			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design B&V - B&V 13C-07-07-95 - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	38.65	80.0	64.0	102.5					
100.0	100.0	96.0	96.0	0.1	0.1	38.65	80.0	64.0	102.4	102.3	0.19	547.429		
200.0	200.0	196.0	196.0	0.3	0.3	38.65	80.0	64.0	102.4	101.8	0.63	162.203	CC, ES	
300.0	299.9	295.9	295.9	0.5	0.5	-139.69	80.0	64.0	104.8	103.7	1.07	97.618		
400.0	399.5	395.5	395.5	0.8	0.8	-142.56	80.0	64.0	111.9	110.4	1.53	72.998		
500.0	498.3	494.3	494.3	1.1	1.0	-146.57	80.0	64.0	124.3	122.3	2.03	61.367		
600.0	596.0	592.0	592.0	1.5	1.2	-150.93	80.0	64.0	142.6	140.1	2.54	56.108		
700.0	692.3	688.3	688.3	2.0	1.4	-155.06	80.0	64.0	167.0	163.9	3.07	54.456	SF	
800.0	786.7	782.7	782.7	2.6	1.6	-158.66	80.0	64.0	197.6	194.0	3.59	54.995		
900.0	878.9	876.8	876.8	3.3	1.8	-161.64	79.6	64.2	233.9	229.8	4.09	57.123		
1,000.0	968.5	966.9	966.9	4.1	2.0	-163.95	78.7	64.5	275.8	271.2	4.59	60.134		
1,100.0	1,055.3	1,054.2	1,054.2	5.1	2.1	-165.81	77.9	64.9	323.3	318.2	5.09	63.571		
1,163.4	1,108.7	1,107.9	1,107.8	5.7	2.2	-166.79	77.4	65.1	356.3	350.9	5.40	65.920		
1,200.0	1,139.2	1,138.5	1,138.5	6.1	2.3	-167.46	77.1	65.2	376.0	370.4	5.60	67.165		
1,300.0	1,222.4	1,222.2	1,222.2	7.1	2.5	-168.99	76.3	65.5	429.9	423.8	6.13	70.118		
1,400.0	1,305.5	1,306.0	1,305.9	8.2	2.6	-170.18	75.5	65.9	484.0	477.4	6.67	72.518		
1,500.0	1,388.7	1,389.7	1,389.6	9.3	2.8	-171.14	74.7	66.2	538.3	531.0	7.23	74.483		
1,600.0	1,471.9	1,473.4	1,473.3	10.3	3.0	-171.91	73.9	66.5	592.6	584.8	7.79	76.109		
1,700.0	1,555.1	1,557.1	1,557.1	11.4	3.2	-172.56	73.1	66.9	647.0	638.6	8.35	77.469		
1,800.0	1,638.3	1,640.8	1,640.8	12.5	3.3	-173.11	72.3	67.2	701.4	692.5	8.92	78.618		
1,900.0	1,721.4	1,724.5	1,724.5	13.5	3.5	-173.58	71.5	67.5	755.9	746.4	9.50	79.596		
2,000.0	1,804.6	1,808.2	1,808.2	14.6	3.7	-173.99	70.7	67.9	810.4	800.3	10.08	80.434		
2,100.0	1,887.8	1,891.9	1,891.9	15.7	3.9	-174.35	69.9	68.2	864.9	854.3	10.66	81.158		
2,200.0	1,971.0	1,975.6	1,975.6	16.7	4.1	-174.66	69.1	68.5	919.5	908.2	11.24	81.786		
2,300.0	2,054.1	2,059.4	2,059.3	17.8	4.2	-174.94	68.3	68.9	974.0	962.2	11.83	82.336		
2,400.0	2,137.3	2,143.1	2,143.0	18.9	4.4	-175.19	67.5	69.2	1,028.6	1,016.2	12.42	82.820		
2,500.0	2,220.5	2,226.8	2,226.7	20.0	4.6	-175.41	66.7	69.5	1,083.2	1,070.2	13.01	83.248		
2,600.0	2,303.7	2,310.5	2,310.4	21.0	4.8	-175.61	65.9	69.9	1,137.8	1,124.2	13.61	83.629		
2,700.0	2,386.9	2,394.2	2,394.1	22.1	5.0	-175.80	65.2	70.2	1,192.4	1,178.2	14.20	83.968		
2,800.0	2,470.0	2,477.9	2,477.8	23.2	5.1	-175.97	64.4	70.5	1,247.0	1,232.2	14.80	84.272		
2,900.0	2,553.2	2,561.6	2,561.5	24.3	5.3	-176.12	63.6	70.9	1,301.7	1,286.3	15.40	84.545		
3,000.0	2,636.4	2,645.3	2,645.2	25.3	5.5	-176.26	62.8	71.2	1,356.3	1,340.3	16.00	84.792		
3,100.0	2,719.6	2,729.0	2,728.9	26.4	5.7	-176.39	62.0	71.5	1,410.9	1,394.4	16.60	85.016		
3,200.0	2,802.8	2,812.8	2,812.6	27.5	5.9	-176.51	61.2	71.9	1,465.6	1,448.4	17.20	85.219		
3,300.0	2,885.9	2,896.5	2,896.4	28.5	6.1	-176.62	60.4	72.2	1,520.2	1,502.4	17.80	85.404		
3,400.0	2,969.1	2,980.2	2,980.1	29.6	6.3	-176.73	59.6	72.5	1,574.9	1,556.5	18.40	85.572		
3,500.0	3,052.3	3,063.9	3,063.8	30.7	6.4	-176.83	58.8	72.8	1,629.6	1,610.5	19.01	85.726		
3,600.0	3,135.5	3,147.6	3,147.5	31.8	6.6	-176.92	58.0	73.2	1,684.2	1,664.6	19.61	85.868		
3,700.0	3,218.6	3,231.3	3,231.2	32.8	6.8	-177.00	57.2	73.5	1,738.9	1,718.7	20.22	85.997		
3,800.0	3,301.8	3,315.0	3,314.9	33.9	7.0	-177.08	56.4	73.8	1,793.5	1,772.7	20.83	86.117		
3,900.0	3,385.0	3,398.7	3,398.6	35.0	7.2	-177.16	55.6	74.2	1,848.2	1,826.8	21.43	86.227		
4,000.0	3,468.2	3,482.4	3,482.3	36.1	7.4	-177.23	54.8	74.5	1,902.9	1,880.8	22.04	86.329		
4,100.0	3,551.4	3,566.1	3,566.0	37.1	7.6	-177.30	54.0	74.8	1,957.5	1,934.9	22.65	86.423		
4,200.0	3,634.5	3,649.9	3,649.7	38.2	7.8	-177.36	53.2	75.2	2,012.2	1,989.0	23.26	86.509		
4,247.8	3,674.3	3,689.9	3,689.7	38.7	7.8	-177.39	52.9	75.3	2,038.3	2,014.8	23.55	86.549		
4,300.0	3,718.2	3,734.0	3,733.9	39.2	7.9	-177.47	52.4	75.5	2,066.2	2,042.2	23.98	86.177		
4,400.0	3,804.6	3,821.0	3,820.8	39.9	8.1	-177.60	51.6	75.9	2,115.5	2,090.8	24.71	85.618		
4,500.0	3,894.0	3,910.8	3,910.6	40.6	8.3	-177.71	50.8	76.2	2,159.5	2,134.1	25.35	85.201		
4,600.0	3,985.9	4,003.1	4,002.9	41.1	8.5	-177.80	49.9	76.6	2,197.9	2,172.0	25.88	84.924		
4,700.0	4,080.1	4,085.0	4,084.8	41.7	8.7	-177.87	49.2	76.9	2,230.7	2,204.4	26.28	84.881		
4,800.0	4,176.2	4,172.3	4,172.2	42.1	8.9	-177.93	49.2	76.9	2,258.4	2,231.8	26.56	85.021		

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



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 13C-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,269.9	4,269.7	42.4	9.1	-177.98	49.2	76.9	2,280.3	2,253.5	26.73	85.307			
5,000.0	4,372.4	4,368.6	4,368.4	42.7	9.3	-178.01	49.2	76.9	2,296.1	2,269.4	26.77	85.758			
5,100.0	4,471.9	4,468.1	4,467.9	42.9	9.5	-178.03	49.2	76.9	2,306.0	2,279.3	26.70	86.366			
5,200.0	4,571.9	4,568.0	4,567.9	42.9	9.7	-178.04	49.2	76.9	2,309.7	2,283.2	26.51	87.141			
5,211.1	4,583.0	4,579.2	4,579.0	43.0	9.7	-0.75	49.2	76.9	2,309.7	2,283.3	26.48	87.235			
5,300.0	4,671.9	4,668.0	4,667.9	43.0	9.9	-0.75	49.2	76.9	2,309.7	2,283.0	26.74	86.371			
5,400.0	4,771.9	4,768.0	4,767.9	43.0	10.0	-0.75	49.2	76.9	2,309.7	2,282.7	27.04	85.431			
5,500.0	4,871.9	4,868.0	4,867.9	43.1	10.2	-0.75	49.2	76.9	2,309.7	2,282.4	27.33	84.501			
5,600.0	4,971.9	4,968.0	4,967.9	43.1	10.4	-0.75	49.2	76.9	2,309.7	2,282.1	27.63	83.580			
5,700.0	5,071.9	5,068.0	5,067.9	43.2	10.6	-0.75	49.2	76.9	2,309.7	2,281.8	27.94	82.669			
5,800.0	5,171.9	5,168.0	5,167.9	43.2	10.8	-0.75	49.2	76.9	2,309.7	2,281.5	28.25	81.768			
5,900.0	5,271.9	5,268.0	5,267.9	43.2	11.0	-0.75	49.2	76.9	2,309.7	2,281.2	28.56	80.877			
6,000.0	5,371.9	5,368.0	5,367.9	43.3	11.2	-0.75	49.2	76.9	2,309.7	2,280.9	28.87	79.997			
6,100.0	5,471.9	5,468.0	5,467.9	43.3	11.4	-0.75	49.2	76.9	2,309.7	2,280.5	29.19	79.128			
6,200.0	5,571.9	5,568.0	5,567.9	43.4	11.6	-0.75	49.2	76.9	2,309.7	2,280.2	29.51	78.270			
6,300.0	5,671.9	5,668.0	5,667.9	43.4	11.8	-0.75	49.2	76.9	2,309.7	2,279.9	29.83	77.423			
6,400.0	5,771.9	5,768.0	5,767.9	43.5	12.0	-0.75	49.2	76.9	2,309.7	2,279.6	30.16	76.587			
6,500.0	5,871.9	5,868.0	5,867.9	43.5	12.2	-0.75	49.2	76.9	2,309.7	2,279.2	30.49	75.762			
6,600.0	5,971.9	5,968.0	5,967.9	43.6	12.5	-0.75	49.2	76.9	2,309.7	2,278.9	30.82	74.948			
6,700.0	6,071.9	6,068.0	6,067.9	43.6	12.7	-0.75	49.2	76.9	2,309.7	2,278.6	31.15	74.146			
6,800.0	6,171.9	6,168.0	6,167.9	43.7	12.9	-0.75	49.2	76.9	2,309.7	2,278.2	31.49	73.355			
6,865.1	6,237.0	6,233.2	6,233.0	43.7	13.0	-0.75	49.2	76.9	2,309.7	2,278.0	31.71	72.845			



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													B&V - B&V 13D-07-07-95 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD															Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
0.0	0.0	0.0	0.0	0.0	0.0	34.63	64.4	44.5	78.4								
100.0	100.0	96.0	96.0	0.1	0.1	34.63	64.4	44.5	78.3	78.1	0.19	418.210					
200.0	200.0	196.0	196.0	0.3	0.3	34.63	64.4	44.5	78.3	77.6	0.63	123.915	CC, ES				
300.0	299.9	295.9	295.9	0.5	0.5	-143.92	64.4	44.5	80.7	79.6	1.07	75.092					
400.0	399.5	395.5	395.5	0.8	0.8	-147.27	64.4	44.5	88.3	86.7	1.54	57.496					
500.0	498.3	494.3	494.3	1.1	1.0	-151.69	64.4	44.5	101.4	99.4	2.02	50.111					
600.0	596.0	592.0	592.0	1.5	1.2	-156.18	64.4	44.5	120.6	118.1	2.53	47.696	SF				
700.0	692.3	688.3	688.3	2.0	1.4	-160.16	64.4	44.5	145.9	142.9	3.04	48.040					
800.0	786.7	782.7	782.7	2.6	1.6	-163.44	64.4	44.5	177.4	173.9	3.55	50.013					
900.0	878.9	874.9	874.9	3.3	1.8	-166.02	64.4	44.5	214.9	210.9	4.06	52.978					
1,000.0	968.5	964.5	964.5	4.1	2.0	-168.04	64.4	44.5	258.2	253.7	4.57	56.559					
1,100.0	1,055.3	1,054.2	1,054.2	5.1	2.2	-169.65	64.1	44.5	306.9	301.8	5.06	60.594					
1,163.4	1,108.7	1,111.2	1,111.2	5.7	2.3	-170.48	63.3	44.6	339.9	334.5	5.37	63.277					
1,200.0	1,139.2	1,144.1	1,144.1	6.1	2.4	-171.02	62.6	44.7	359.4	353.8	5.56	64.654					
1,300.0	1,222.4	1,235.1	1,235.0	7.1	2.6	-172.21	59.6	45.0	411.8	405.7	6.08	67.731					
1,400.0	1,305.5	1,327.8	1,327.7	8.2	2.7	-173.10	55.1	45.5	462.8	456.2	6.62	69.925					
1,500.0	1,388.7	1,422.4	1,422.0	9.3	2.9	-173.78	48.9	46.1	512.6	505.4	7.18	71.427					
1,600.0	1,471.9	1,518.8	1,518.1	10.3	3.1	-174.31	41.1	47.0	560.9	553.2	7.75	72.381					
1,700.0	1,555.1	1,617.0	1,615.8	11.4	3.3	-174.74	31.4	48.0	607.8	599.5	8.34	72.897					
1,800.0	1,638.3	1,716.9	1,715.0	12.5	3.6	-175.08	19.9	49.3	653.2	644.3	8.94	73.057					
1,900.0	1,721.4	1,818.6	1,815.8	13.5	3.8	-175.36	6.4	50.7	697.1	687.5	9.56	72.925					
2,000.0	1,804.6	1,919.7	1,915.8	14.6	4.1	-175.57	-8.8	52.3	739.4	729.2	10.19	72.580					
2,100.0	1,887.8	2,010.5	2,005.5	15.7	4.4	-175.74	-23.0	53.8	781.1	770.3	10.81	72.264					
2,200.0	1,971.0	2,101.4	2,095.2	16.7	4.7	-175.89	-37.2	55.4	822.9	811.4	11.44	71.958					
2,300.0	2,054.1	2,192.2	2,184.9	17.8	5.0	-176.03	-51.4	56.9	864.6	852.6	12.07	71.651					
2,400.0	2,137.3	2,283.1	2,274.6	18.9	5.3	-176.15	-65.6	58.4	906.4	893.7	12.70	71.355					
2,500.0	2,220.5	2,373.9	2,364.4	20.0	5.6	-176.27	-79.7	59.9	948.1	934.8	13.34	71.074					
2,600.0	2,303.7	2,464.8	2,454.1	21.0	5.9	-176.37	-93.9	61.5	989.9	975.9	13.98	70.808					
2,700.0	2,386.9	2,555.6	2,543.8	22.1	6.2	-176.47	-108.1	63.0	1,031.7	1,017.0	14.62	70.555					
2,800.0	2,470.0	2,646.5	2,633.5	23.2	6.5	-176.55	-122.3	64.5	1,073.4	1,058.2	15.27	70.316					
2,900.0	2,553.2	2,737.3	2,723.2	24.3	6.8	-176.63	-136.5	66.0	1,115.2	1,099.3	15.91	70.089					
3,000.0	2,636.4	2,828.2	2,813.0	25.3	7.1	-176.71	-150.7	67.5	1,157.0	1,140.4	16.56	69.874					
3,100.0	2,719.6	2,919.0	2,902.7	26.4	7.4	-176.78	-164.8	69.1	1,198.8	1,181.5	17.21	69.670					
3,200.0	2,802.8	3,009.9	2,992.4	27.5	7.8	-176.84	-179.0	70.6	1,240.5	1,222.7	17.86	69.476					
3,300.0	2,885.9	3,100.7	3,082.1	28.5	8.1	-176.91	-193.2	72.1	1,282.3	1,263.8	18.51	69.292					
3,400.0	2,969.1	3,191.6	3,171.8	29.6	8.4	-176.96	-207.4	73.6	1,324.1	1,304.9	19.16	69.117					
3,500.0	3,052.3	3,268.4	3,247.8	30.7	8.7	-177.01	-219.1	74.9	1,366.2	1,346.5	19.77	69.097					
3,600.0	3,135.5	3,341.0	3,319.7	31.8	8.9	-177.06	-229.2	76.0	1,409.5	1,389.1	20.37	69.185					
3,700.0	3,218.6	3,412.8	3,390.8	32.8	9.1	-177.11	-238.4	76.9	1,453.9	1,433.0	20.97	69.340					
3,800.0	3,301.8	3,483.7	3,461.2	33.9	9.2	-177.15	-246.5	77.8	1,499.4	1,477.9	21.56	69.550					
3,900.0	3,385.0	3,553.6	3,530.8	35.0	9.4	-177.20	-253.7	78.6	1,546.0	1,523.9	22.15	69.809					
4,000.0	3,468.2	3,622.7	3,599.6	36.1	9.6	-177.25	-260.0	79.3	1,593.7	1,571.0	22.73	70.111					
4,100.0	3,551.4	3,700.0	3,676.7	37.1	9.7	-177.31	-266.1	79.9	1,642.4	1,619.1	23.33	70.403					
4,200.0	3,634.5	3,758.1	3,734.7	38.2	9.9	-177.36	-269.9	80.3	1,692.1	1,668.3	23.89	70.833					
4,247.8	3,674.3	3,800.0	3,776.5	38.7	10.0	-177.39	-272.3	80.6	1,716.3	1,692.1	24.18	70.973					
4,300.0	3,718.2	3,824.8	3,801.2	39.2	10.0	-177.45	-273.6	80.7	1,742.2	1,717.6	24.56	70.936					
4,400.0	3,804.6	3,900.0	3,876.4	39.9	10.2	-177.58	-276.9	81.1	1,788.5	1,763.3	25.24	70.854					
4,500.0	3,894.0	3,961.7	3,938.0	40.6	10.3	-177.68	-278.9	81.3	1,830.4	1,804.6	25.79	70.979					
4,600.0	3,985.9	4,031.9	4,008.2	41.1	10.4	-177.77	-280.3	81.4	1,867.8	1,841.5	26.23	71.198					
4,700.0	4,080.1	4,103.0	4,079.3	41.7	10.5	-177.84	-280.8	81.5	1,900.6	1,874.1	26.56	71.552					
4,800.0	4,176.2	4,195.8	4,172.2	42.1	10.7	-177.91	-280.8	81.5	1,928.4	1,901.6	26.81	71.919					

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 13D-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft	
Survey Program:		0-MWD											Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
4,900.0	4,273.7	4,293.4	4,269.7	42.4	10.8	-177.96	-280.8	81.5	1,950.3	1,923.3	26.95	72.368				
5,000.0	4,372.4	4,392.1	4,368.4	42.7	11.0	-178.00	-280.8	81.5	1,966.1	1,939.2	26.97	72.909				
5,100.0	4,471.9	4,491.6	4,467.9	42.9	11.2	-178.02	-280.8	81.5	1,975.9	1,949.1	26.86	73.552				
5,200.0	4,571.9	4,591.5	4,567.9	42.9	11.3	-178.03	-280.8	81.5	1,979.7	1,953.0	26.64	74.306				
5,211.1	4,583.0	4,602.7	4,579.0	43.0	11.4	-0.74	-280.8	81.5	1,979.7	1,953.1	26.61	74.395				
5,300.0	4,671.9	4,691.5	4,667.9	43.0	11.5	-0.74	-280.8	81.5	1,979.7	1,952.8	26.88	73.639				
5,400.0	4,771.9	4,791.5	4,767.9	43.0	11.7	-0.74	-280.8	81.5	1,979.7	1,952.5	27.19	72.818				
5,500.0	4,871.9	4,891.5	4,867.9	43.1	11.9	-0.74	-280.8	81.5	1,979.7	1,952.2	27.49	72.006				
5,600.0	4,971.9	4,991.5	4,967.9	43.1	12.0	-0.74	-280.8	81.5	1,979.7	1,951.9	27.80	71.205				
5,700.0	5,071.9	5,091.5	5,067.9	43.2	12.2	-0.74	-280.8	81.5	1,979.7	1,951.6	28.12	70.413				
5,800.0	5,171.9	5,191.5	5,167.9	43.2	12.4	-0.74	-280.8	81.5	1,979.7	1,951.3	28.43	69.631				
5,900.0	5,271.9	5,291.5	5,267.9	43.2	12.6	-0.74	-280.8	81.5	1,979.7	1,951.0	28.75	68.860				
6,000.0	5,371.9	5,391.5	5,367.9	43.3	12.8	-0.74	-280.8	81.5	1,979.7	1,950.6	29.07	68.099				
6,100.0	5,471.9	5,491.5	5,467.9	43.3	13.0	-0.74	-280.8	81.5	1,979.7	1,950.3	29.40	67.348				
6,200.0	5,571.9	5,591.5	5,567.9	43.4	13.1	-0.74	-280.8	81.5	1,979.7	1,950.0	29.72	66.608				
6,300.0	5,671.9	5,691.5	5,667.9	43.4	13.3	-0.74	-280.8	81.5	1,979.7	1,949.7	30.05	65.878				
6,400.0	5,771.9	5,791.5	5,767.9	43.5	13.5	-0.74	-280.8	81.5	1,979.7	1,949.3	30.38	65.159				
6,500.0	5,871.9	5,891.5	5,867.9	43.5	13.7	-0.74	-280.8	81.5	1,979.7	1,949.0	30.72	64.450				
6,600.0	5,971.9	5,991.5	5,967.9	43.6	13.9	-0.74	-280.8	81.5	1,979.7	1,948.7	31.05	63.751				
6,700.0	6,071.9	6,091.5	6,067.9	43.6	14.1	-0.74	-280.8	81.5	1,979.7	1,948.3	31.39	63.062				
6,800.0	6,171.9	6,191.5	6,167.9	43.7	14.3	-0.74	-280.8	81.5	1,979.7	1,948.0	31.73	62.384				
6,865.1	6,237.0	6,256.7	6,233.0	43.7	14.4	-0.74	-280.8	81.5	1,979.7	1,947.8	31.96	61.948				

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
B&V - B&V 14A-07-07-95 - Wellbore #1 - Design #1															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	27.10	48.8	25.0	54.9						
100.0	100.0	96.0	96.0	0.1	0.1	27.10	48.8	25.0	54.8	54.6	0.19	292.841			
200.0	200.0	196.0	196.0	0.3	0.3	27.10	48.8	25.0	54.8	54.2	0.63	86.768 CC, ES			
300.0	299.9	295.9	295.9	0.5	0.5	-151.66	48.8	25.0	57.5	56.4	1.08	53.325			
400.0	399.5	395.5	395.5	0.8	0.8	-155.33	48.8	25.0	65.7	64.1	1.54	42.669			
500.0	498.3	494.3	494.3	1.1	1.0	-159.71	48.8	25.0	79.8	77.7	2.02	39.465 SF			
600.0	596.0	592.0	592.0	1.5	1.2	-163.72	48.8	25.0	100.0	97.4	2.51	39.789			
700.0	692.3	688.3	688.3	2.0	1.4	-166.96	48.8	25.0	126.3	123.3	3.01	41.996			
800.0	786.7	782.7	782.7	2.6	1.6	-169.42	48.8	25.0	158.6	155.1	3.50	45.268			
900.0	878.9	874.9	874.9	3.3	1.8	-171.27	48.8	25.0	196.8	192.8	4.00	49.161			
1,000.0	968.5	964.5	964.5	4.1	2.0	-172.65	48.8	25.0	240.7	236.2	4.51	53.424			
1,100.0	1,055.3	1,051.3	1,051.3	5.1	2.2	-173.69	48.8	25.0	290.1	285.1	5.01	57.909			
1,163.4	1,108.7	1,104.7	1,104.7	5.7	2.4	-174.21	48.8	25.0	324.1	318.7	5.33	60.828			
1,200.0	1,139.2	1,135.2	1,135.2	6.1	2.4	-174.55	48.8	25.0	344.3	338.8	5.53	62.296			
1,300.0	1,222.4	1,223.2	1,223.2	7.1	2.6	-175.34	48.6	25.0	399.6	393.5	6.08	65.692			
1,400.0	1,305.5	1,332.9	1,332.8	8.2	2.8	-175.99	44.2	25.4	451.6	445.0	6.63	68.096			
1,500.0	1,388.7	1,450.2	1,449.5	9.3	3.0	-176.41	32.5	26.5	498.5	491.3	7.18	69.389			
1,600.0	1,471.9	1,575.1	1,572.7	10.3	3.3	-176.68	12.2	28.4	539.7	531.9	7.78	69.381			
1,700.0	1,555.1	1,707.1	1,701.2	11.4	3.7	-176.82	-17.9	31.1	574.7	566.3	8.42	68.248			
1,800.0	1,638.3	1,808.1	1,798.4	12.5	4.1	-176.87	-45.2	33.7	605.6	596.5	9.06	66.852			
1,900.0	1,721.4	1,903.3	1,889.9	13.5	4.5	-176.91	-70.9	36.1	636.4	626.7	9.71	65.534			
2,000.0	1,804.6	1,998.4	1,981.5	14.6	4.9	-176.94	-96.7	38.5	667.2	656.8	10.37	64.326			
2,100.0	1,887.8	2,093.5	2,073.0	15.7	5.3	-176.98	-122.5	40.8	698.0	687.0	11.04	63.236			
2,200.0	1,971.0	2,188.7	2,164.6	16.7	5.8	-177.01	-148.3	43.2	728.8	717.1	11.72	62.199			
2,300.0	2,054.1	2,283.8	2,256.1	17.8	6.2	-177.04	-174.1	45.6	759.7	747.3	12.40	61.261			
2,400.0	2,137.3	2,378.9	2,347.6	18.9	6.7	-177.06	-199.9	48.0	790.5	777.4	13.09	60.400			
2,500.0	2,220.5	2,474.1	2,439.2	20.0	7.2	-177.09	-225.7	50.4	821.3	807.5	13.78	59.607			
2,600.0	2,303.7	2,569.2	2,530.7	21.0	7.7	-177.11	-251.5	52.8	852.1	837.6	14.47	58.876			
2,700.0	2,386.9	2,664.3	2,622.3	22.1	8.2	-177.13	-277.3	55.2	882.9	867.7	15.17	58.200			
2,800.0	2,470.0	2,759.5	2,713.8	23.2	8.7	-177.15	-303.1	57.6	913.7	897.8	15.87	57.574			
2,900.0	2,553.2	2,854.6	2,805.3	24.3	9.2	-177.17	-328.9	60.0	944.5	927.9	16.57	56.993			
3,000.0	2,636.4	2,949.7	2,896.9	25.3	9.7	-177.19	-354.7	62.4	975.3	958.1	17.28	56.453			
3,100.0	2,719.6	3,044.9	2,988.4	26.4	10.2	-177.20	-380.5	64.8	1,006.1	988.2	17.98	55.949			
3,200.0	2,802.8	3,140.0	3,080.0	27.5	10.7	-177.22	-406.2	67.1	1,037.0	1,018.3	18.69	55.479			
3,300.0	2,885.9	3,235.1	3,171.5	28.5	11.3	-177.23	-432.0	69.5	1,067.8	1,048.4	19.40	55.038			
3,400.0	2,969.1	3,330.3	3,263.0	29.6	11.8	-177.25	-457.8	71.9	1,098.6	1,078.5	20.11	54.626			
3,500.0	3,052.3	3,425.4	3,354.6	30.7	12.3	-177.26	-483.6	74.3	1,129.4	1,108.6	20.82	54.238			
3,600.0	3,135.5	3,520.5	3,446.1	31.8	12.8	-177.27	-509.4	76.7	1,160.2	1,138.7	21.54	53.874			
3,700.0	3,218.6	3,615.7	3,537.7	32.8	13.3	-177.28	-535.2	79.1	1,191.0	1,168.8	22.25	53.531			
3,800.0	3,301.8	3,679.2	3,598.9	33.9	13.6	-177.29	-561.8	80.6	1,222.9	1,200.0	22.87	53.469			
3,900.0	3,385.0	3,736.1	3,654.3	35.0	13.9	-177.31	-565.0	81.9	1,257.5	1,234.1	23.47	53.592			
4,000.0	3,468.2	3,800.0	3,716.9	36.1	14.1	-177.34	-577.8	83.1	1,295.0	1,270.9	24.07	53.798			
4,100.0	3,551.4	3,846.2	3,762.3	37.1	14.2	-177.36	-585.8	83.8	1,335.0	1,310.4	24.63	54.211			
4,200.0	3,634.5	3,900.0	3,815.6	38.2	14.4	-177.39	-593.7	84.5	1,377.6	1,352.4	25.20	54.672			
4,247.8	3,674.3	3,924.0	3,839.3	38.7	14.4	-177.41	-596.8	84.8	1,398.8	1,373.4	25.46	54.938			
4,300.0	3,718.2	3,950.9	3,866.1	39.2	14.5	-177.47	-599.8	85.1	1,421.9	1,396.1	25.84	55.020			
4,400.0	3,804.6	4,000.0	3,915.0	39.9	14.6	-177.57	-604.5	85.5	1,463.8	1,437.3	26.47	55.297			
4,500.0	3,894.0	4,054.7	3,969.5	40.6	14.7	-177.66	-608.1	85.9	1,502.5	1,475.6	26.98	55.686			
4,600.0	3,985.9	4,100.0	4,014.8	41.1	14.8	-177.73	-610.0	86.0	1,538.2	1,510.8	27.35	56.232			
4,700.0	4,080.1	4,161.3	4,076.1	41.7	14.9	-177.81	-610.8	86.1	1,570.6	1,543.0	27.63	56.852			
4,800.0	4,176.2	4,257.4	4,172.2	42.1	15.0	-177.89	-610.8	86.1	1,598.4	1,570.6	27.82	57.451			

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 14A-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,354.9	4,269.7	42.4	15.1	-177.94	-610.8	86.1	1,620.2	1,592.3	27.89	58.087			
5,000.0	4,372.4	4,453.6	4,368.4	42.7	15.2	-177.98	-610.8	86.1	1,636.1	1,608.3	27.84	58.761			
5,100.0	4,471.9	4,553.1	4,467.9	42.9	15.3	-178.01	-610.8	86.1	1,645.9	1,618.3	27.67	59.481			
5,200.0	4,571.9	4,653.0	4,567.9	42.9	15.4	-178.02	-610.8	86.1	1,649.7	1,622.3	27.38	60.255			
5,211.1	4,583.0	4,664.2	4,579.0	43.0	15.5	-0.73	-610.8	86.1	1,649.7	1,622.4	27.34	60.343			
5,300.0	4,671.9	4,753.0	4,667.9	43.0	15.6	-0.73	-610.8	86.1	1,649.7	1,622.1	27.60	59.780			
5,400.0	4,771.9	4,853.0	4,767.9	43.0	15.7	-0.73	-610.8	86.1	1,649.7	1,621.8	27.88	59.167			
5,500.0	4,871.9	4,953.0	4,867.9	43.1	15.8	-0.73	-610.8	86.1	1,649.7	1,621.5	28.17	58.558			
5,600.0	4,971.9	5,053.0	4,967.9	43.1	16.0	-0.73	-610.8	86.1	1,649.7	1,621.2	28.47	57.954			
5,700.0	5,071.9	5,153.0	5,067.9	43.2	16.1	-0.73	-610.8	86.1	1,649.7	1,620.9	28.76	57.356			
5,800.0	5,171.9	5,253.0	5,167.9	43.2	16.2	-0.73	-610.8	86.1	1,649.7	1,620.6	29.06	56.763			
5,900.0	5,271.9	5,353.0	5,267.9	43.2	16.4	-0.73	-610.8	86.1	1,649.7	1,620.3	29.37	56.175			
6,000.0	5,371.9	5,453.0	5,367.9	43.3	16.5	-0.73	-610.8	86.1	1,649.7	1,620.0	29.67	55.594			
6,100.0	5,471.9	5,553.0	5,467.9	43.3	16.6	-0.73	-610.8	86.1	1,649.7	1,619.7	29.98	55.019			
6,200.0	5,571.9	5,653.0	5,567.9	43.4	16.8	-0.73	-610.8	86.1	1,649.7	1,619.4	30.30	54.449			
6,300.0	5,671.9	5,753.0	5,667.9	43.4	16.9	-0.73	-610.8	86.1	1,649.7	1,619.1	30.61	53.887			
6,400.0	5,771.9	5,853.0	5,767.9	43.5	17.1	-0.73	-610.8	86.1	1,649.7	1,618.8	30.93	53.330			
6,500.0	5,871.9	5,953.0	5,867.9	43.5	17.2	-0.73	-610.8	86.1	1,649.7	1,618.4	31.26	52.781			
6,600.0	5,971.9	6,053.0	5,967.9	43.6	17.4	-0.73	-610.8	86.1	1,649.7	1,618.1	31.58	52.238			
6,700.0	6,071.9	6,153.0	6,067.9	43.6	17.5	-0.73	-610.8	86.1	1,649.7	1,617.8	31.91	51.701			
6,800.0	6,171.9	6,253.0	6,167.9	43.7	17.7	-0.73	-610.8	86.1	1,649.7	1,617.5	32.24	51.172			
6,865.1	6,237.0	6,318.2	6,233.0	43.7	17.8	-0.73	-610.8	86.1	1,649.7	1,617.2	32.46	50.830			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													B&V - B&V 14B-07-07-95 - Wellbore #1 - Design #1		Offset Site Error: 0.0 usft	
Survey Program: 0-MWD													Offset Well Error: 0.0 usft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	9.34	33.2	5.5	33.9							
100.0	100.0	96.0	96.0	0.1	0.1	9.34	33.2	5.5	33.6	33.4	0.19	179.615				
200.0	200.0	196.0	196.0	0.3	0.3	9.34	33.2	5.5	33.6	33.0	0.63	53.220	CC, ES			
300.0	299.9	295.9	295.9	0.5	0.5	-168.92	33.2	5.5	36.6	35.5	1.08	33.824				
400.0	399.5	395.5	395.5	0.8	0.8	-171.08	33.2	5.5	45.6	44.1	1.54	29.550	SF			
500.0	498.3	494.3	494.3	1.1	1.0	-173.25	33.2	5.5	60.7	58.7	2.02	30.078				
600.0	596.0	592.0	592.0	1.5	1.2	-174.93	33.2	5.5	81.8	79.3	2.50	32.737				
700.0	692.3	688.3	688.3	2.0	1.4	-176.12	33.2	5.5	108.9	105.9	2.98	36.471				
800.0	786.7	782.7	782.7	2.6	1.6	-176.96	33.2	5.5	141.8	138.3	3.48	40.784				
900.0	878.9	874.9	874.9	3.3	1.8	-177.55	33.2	5.5	180.4	176.4	3.97	45.417				
1,000.0	968.5	964.5	964.5	4.1	2.0	-177.97	33.2	5.5	224.6	220.1	4.47	50.227				
1,100.0	1,055.3	1,059.9	1,059.9	5.1	2.2	-178.30	32.2	5.5	273.4	268.4	4.97	55.046				
1,163.4	1,108.7	1,124.6	1,124.6	5.7	2.4	-178.44	29.1	5.8	304.9	299.7	5.26	57.947				
1,200.0	1,139.2	1,162.8	1,162.6	6.1	2.4	-178.52	26.3	6.1	322.9	317.5	5.45	59.279				
1,300.0	1,222.4	1,271.4	1,270.5	7.1	2.6	-178.66	14.0	7.1	368.6	362.7	5.98	61.691				
1,400.0	1,305.5	1,386.2	1,383.6	8.2	2.9	-178.70	-5.6	8.9	409.1	402.6	6.55	62.482				
1,500.0	1,388.7	1,506.9	1,500.9	9.3	3.3	-178.68	-33.4	11.3	443.9	436.7	7.17	61.916				
1,600.0	1,471.9	1,632.9	1,621.4	10.3	3.8	-178.60	-70.3	14.5	472.6	464.7	7.85	60.201				
1,700.0	1,555.1	1,763.4	1,743.2	11.4	4.5	-178.46	-116.8	18.6	494.7	486.1	8.59	57.616				
1,800.0	1,638.3	1,865.4	1,836.9	12.5	5.2	-178.33	-157.0	22.1	512.9	503.6	9.31	55.069				
1,900.0	1,721.4	1,963.7	1,927.2	13.5	5.8	-178.22	-195.8	25.5	531.0	521.0	10.03	52.966				
2,000.0	1,804.6	2,062.0	2,017.5	14.6	6.5	-178.11	-234.5	28.9	549.1	538.3	10.77	50.980				
2,100.0	1,887.8	2,160.4	2,107.8	15.7	7.2	-178.01	-273.3	32.3	567.2	555.7	11.52	49.225				
2,200.0	1,971.0	2,258.7	2,198.1	16.7	7.9	-177.92	-312.1	35.7	585.3	573.0	12.28	47.657				
2,300.0	2,054.1	2,357.1	2,288.4	17.8	8.7	-177.83	-350.9	39.1	603.4	590.4	13.05	46.248				
2,400.0	2,137.3	2,455.4	2,378.7	18.9	9.4	-177.75	-389.7	42.5	621.6	607.7	13.82	44.978				
2,500.0	2,220.5	2,553.7	2,469.0	20.0	10.1	-177.67	-428.5	45.9	639.7	625.1	14.59	43.829				
2,600.0	2,303.7	2,652.1	2,559.3	21.0	10.9	-177.60	-467.3	49.3	657.8	642.4	15.37	42.785				
2,700.0	2,386.9	2,750.4	2,649.6	22.1	11.6	-177.53	-506.1	52.7	675.9	659.8	16.16	41.832				
2,800.0	2,470.0	2,848.8	2,739.9	23.2	12.4	-177.46	-544.8	56.1	694.0	677.1	16.94	40.961				
2,900.0	2,553.2	2,947.1	2,830.2	24.3	13.1	-177.40	-583.6	59.5	712.2	694.4	17.73	40.161				
3,000.0	2,636.4	3,045.5	2,920.5	25.3	13.9	-177.34	-622.4	62.9	730.3	711.8	18.52	39.425				
3,100.0	2,719.6	3,143.8	3,010.9	26.4	14.6	-177.28	-661.2	66.3	748.4	729.1	19.32	38.745				
3,200.0	2,802.8	3,242.1	3,101.2	27.5	15.4	-177.23	-700.0	69.6	766.5	746.4	20.11	38.115				
3,300.0	2,885.9	3,340.5	3,191.5	28.5	16.2	-177.18	-738.8	73.0	784.7	763.8	20.91	37.531				
3,400.0	2,969.1	3,438.8	3,281.8	29.6	16.9	-177.13	-777.6	76.4	802.8	781.1	21.70	36.987				
3,500.0	3,052.3	3,500.0	3,338.1	30.7	17.3	-177.10	-801.3	78.5	822.2	799.8	22.37	36.759				
3,600.0	3,135.5	3,581.5	3,414.2	31.8	17.8	-177.08	-830.2	81.0	844.7	821.6	23.08	36.607				
3,700.0	3,218.6	3,648.2	3,477.4	32.8	18.1	-177.08	-851.4	82.9	870.8	847.1	23.73	36.703				
3,800.0	3,301.8	3,700.0	3,527.1	33.9	18.3	-177.10	-866.4	84.2	900.3	876.0	24.33	37.009				
3,900.0	3,385.0	3,777.5	3,601.9	35.0	18.7	-177.13	-886.2	86.0	932.8	907.8	24.98	37.337				
4,000.0	3,468.2	3,840.0	3,662.8	36.1	18.9	-177.16	-900.0	87.2	968.5	942.9	25.59	37.849				
4,100.0	3,551.4	3,900.0	3,721.8	37.1	19.1	-177.21	-911.4	88.2	1,007.2	981.0	26.18	38.470				
4,200.0	3,634.5	3,960.0	3,781.0	38.2	19.3	-177.26	-921.0	89.0	1,048.7	1,022.0	26.76	39.195				
4,247.8	3,674.3	4,000.0	3,820.6	38.7	19.4	-177.29	-926.3	89.5	1,069.7	1,042.6	27.05	39.537				
4,300.0	3,718.2	4,000.0	3,820.6	39.2	19.4	-177.33	-926.3	89.5	1,092.5	1,065.1	27.37	39.920				
4,400.0	3,804.6	4,075.3	3,895.6	39.9	19.5	-177.47	-934.1	90.1	1,133.7	1,105.7	28.00	40.488				
4,500.0	3,894.0	4,132.9	3,953.0	40.6	19.6	-177.58	-938.0	90.5	1,172.2	1,143.7	28.47	41.174				
4,600.0	3,985.9	4,200.0	4,020.1	41.1	19.7	-177.68	-940.5	90.7	1,207.9	1,179.1	28.82	41.912				
4,700.0	4,080.1	4,256.1	4,076.1	41.7	19.8	-177.76	-940.8	90.7	1,240.6	1,211.6	29.02	42.753				
4,800.0	4,176.2	4,352.1	4,172.2	42.1	19.9	-177.85	-940.8	90.7	1,268.4	1,239.2	29.13	43.534				

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 14B-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,449.7	4,269.7	42.4	19.9	-177.91	-940.8	90.7	1,290.2	1,261.1	29.13	44.299			
5,000.0	4,372.4	4,548.4	4,368.4	42.7	20.0	-177.96	-940.8	90.7	1,306.1	1,277.1	28.99	45.053			
5,100.0	4,471.9	4,647.9	4,467.9	42.9	20.1	-177.99	-940.8	90.7	1,315.9	1,287.2	28.73	45.803			
5,200.0	4,571.9	4,747.8	4,567.9	42.9	20.2	-178.00	-940.8	90.7	1,319.7	1,291.3	28.35	46.556			
5,211.1	4,583.0	4,759.0	4,579.0	43.0	20.2	-0.71	-940.8	90.7	1,319.7	1,291.4	28.30	46.639			
5,300.0	4,671.9	4,847.8	4,667.9	43.0	20.3	-0.71	-940.8	90.7	1,319.7	1,291.2	28.54	46.243			
5,400.0	4,771.9	4,947.8	4,767.9	43.0	20.4	-0.71	-940.8	90.7	1,319.7	1,290.9	28.81	45.811			
5,500.0	4,871.9	5,047.8	4,867.9	43.1	20.5	-0.71	-940.8	90.7	1,319.7	1,290.6	29.08	45.380			
5,600.0	4,971.9	5,147.8	4,967.9	43.1	20.6	-0.71	-940.8	90.7	1,319.7	1,290.3	29.36	44.952			
5,700.0	5,071.9	5,247.8	5,067.9	43.2	20.7	-0.71	-940.8	90.7	1,319.7	1,290.0	29.64	44.525			
5,800.0	5,171.9	5,347.8	5,167.9	43.2	20.8	-0.71	-940.8	90.7	1,319.7	1,289.8	29.92	44.101			
5,900.0	5,271.9	5,447.8	5,267.9	43.2	20.9	-0.71	-940.8	90.7	1,319.7	1,289.5	30.21	43.679			
6,000.0	5,371.9	5,547.8	5,367.9	43.3	21.0	-0.71	-940.8	90.7	1,319.7	1,289.2	30.51	43.260			
6,100.0	5,471.9	5,647.8	5,467.9	43.3	21.1	-0.71	-940.8	90.7	1,319.7	1,288.9	30.80	42.845			
6,200.0	5,571.9	5,747.8	5,567.9	43.4	21.2	-0.71	-940.8	90.7	1,319.7	1,288.6	31.10	42.432			
6,300.0	5,671.9	5,847.8	5,667.9	43.4	21.3	-0.71	-940.8	90.7	1,319.7	1,288.3	31.40	42.023			
6,400.0	5,771.9	5,947.8	5,767.9	43.5	21.5	-0.71	-940.8	90.7	1,319.7	1,288.0	31.71	41.617			
6,500.0	5,871.9	6,047.8	5,867.9	43.5	21.6	-0.71	-940.8	90.7	1,319.7	1,287.7	32.02	41.215			
6,600.0	5,971.9	6,147.8	5,967.9	43.6	21.7	-0.71	-940.8	90.7	1,319.7	1,287.4	32.33	40.817			
6,700.0	6,071.9	6,247.8	6,067.9	43.6	21.8	-0.71	-940.8	90.7	1,319.7	1,287.0	32.65	40.423			
6,800.0	6,171.9	6,347.8	6,167.9	43.7	21.9	-0.71	-940.8	90.7	1,319.7	1,286.7	32.96	40.033			
6,865.1	6,237.0	6,413.0	6,233.0	43.7	22.0	-0.71	-940.8	90.7	1,319.7	1,286.5	33.17	39.781			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	51.33	46.8	58.5	75.1						
100.0	100.0	96.0	96.0	0.1	0.1	51.33	46.8	58.5	75.0	74.8	0.19	400.557			
200.0	200.0	196.0	196.0	0.3	0.3	51.33	46.8	58.5	75.0	74.3	0.63	118.685 CC, ES			
300.0	299.9	295.9	295.9	0.5	0.5	-127.75	46.8	58.5	76.8	75.7	1.07	71.896			
400.0	399.5	395.5	395.5	0.8	0.8	-132.60	46.8	58.5	82.7	81.2	1.53	54.161			
500.0	498.3	494.3	494.3	1.1	1.0	-139.17	46.8	58.5	93.7	91.7	2.03	46.178			
600.0	596.0	592.0	592.0	1.5	1.2	-145.98	46.8	58.5	110.7	108.2	2.56	43.334			
700.0	692.3	688.3	688.3	2.0	1.4	-152.02	46.8	58.5	134.3	131.2	3.09	43.514			
800.0	786.7	782.7	782.7	2.6	1.6	-156.95	46.8	58.5	164.4	160.7	3.61	45.518			
900.0	878.9	883.2	883.2	3.3	1.8	-160.99	45.0	58.6	199.2	195.1	4.11	48.499			
1,000.0	968.5	987.2	986.9	4.1	2.0	-163.96	37.7	58.8	235.5	230.9	4.57	51.529			
1,100.0	1,055.3	1,093.3	1,092.2	5.1	2.2	-166.21	24.4	59.2	272.7	267.6	5.05	54.031			
1,163.4	1,108.7	1,161.8	1,159.6	5.7	2.4	-167.36	12.7	59.5	296.6	291.2	5.36	55.293			
1,200.0	1,139.2	1,202.0	1,199.0	6.1	2.5	-168.05	4.7	59.7	310.2	304.6	5.57	55.736			
1,300.0	1,222.4	1,315.1	1,308.8	7.1	2.9	-169.54	-22.2	60.5	343.7	337.5	6.16	55.780			
1,400.0	1,305.5	1,432.8	1,421.2	8.2	3.5	-170.62	-57.0	61.4	371.6	364.8	6.82	54.508			
1,500.0	1,388.7	1,554.4	1,534.9	9.3	4.2	-171.40	-100.2	62.6	393.6	386.1	7.54	52.214			
1,600.0	1,471.9	1,679.1	1,648.4	10.3	5.0	-171.96	-151.9	64.1	409.4	401.1	8.33	49.162			
1,700.0	1,555.1	1,806.0	1,760.1	11.4	6.0	-172.35	-211.9	65.8	418.7	409.5	9.17	45.639			
1,800.0	1,638.3	1,913.6	1,852.3	12.5	7.0	-172.58	-267.4	67.3	423.1	413.1	10.01	42.268			
1,900.0	1,721.4	2,013.5	1,937.7	13.5	8.0	-172.79	-319.2	68.8	427.3	416.4	10.84	39.429			
2,000.0	1,804.6	2,113.4	2,023.1	14.6	8.9	-172.99	-371.0	70.2	431.4	419.8	11.67	36.965			
2,100.0	1,887.8	2,213.3	2,108.5	15.7	9.9	-173.19	-422.8	71.7	435.6	423.1	12.51	34.812			
2,200.0	1,971.0	2,313.2	2,193.9	16.7	10.9	-173.39	-474.6	73.1	439.8	426.4	13.36	32.919			
2,300.0	2,054.1	2,413.1	2,279.4	17.8	11.8	-173.58	-526.4	74.5	444.0	429.8	14.21	31.244			
2,400.0	2,137.3	2,513.0	2,364.8	18.9	12.8	-173.77	-578.2	76.0	448.2	433.1	15.06	29.752			
2,500.0	2,220.5	2,612.9	2,450.2	20.0	13.8	-173.96	-630.0	77.4	452.4	436.5	15.92	28.417			
2,600.0	2,303.7	2,712.8	2,535.6	21.0	14.8	-174.14	-681.8	78.9	456.6	439.8	16.78	27.216			
2,700.0	2,386.9	2,812.7	2,621.0	22.1	15.8	-174.32	-733.6	80.3	460.8	443.2	17.63	26.130			
2,800.0	2,470.0	2,912.6	2,706.4	23.2	16.8	-174.50	-785.3	81.8	465.0	446.5	18.49	25.143			
2,900.0	2,553.2	3,012.5	2,791.9	24.3	17.8	-174.67	-837.1	83.2	469.2	449.9	19.35	24.243			
3,000.0	2,636.4	3,112.4	2,877.3	25.3	18.7	-174.84	-888.9	84.7	473.4	453.2	20.22	23.419			
3,100.0	2,719.6	3,212.3	2,962.7	26.4	19.7	-175.01	-940.7	86.1	477.7	456.6	21.08	22.662			
3,200.0	2,802.8	3,312.2	3,048.1	27.5	20.7	-175.17	-992.5	87.6	481.9	460.0	21.94	21.965			
3,300.0	2,885.9	3,400.0	3,124.1	28.5	21.5	-175.33	-1,036.4	88.8	488.2	465.4	22.74	21.472			
3,400.0	2,969.1	3,471.5	3,187.5	29.6	22.0	-175.47	-1,069.5	89.7	498.4	475.0	23.44	21.260			
3,500.0	3,052.3	3,549.7	3,258.2	30.7	22.4	-175.65	-1,103.0	90.7	512.8	488.7	24.16	21.225 SF			
3,600.0	3,135.5	3,626.9	3,329.2	31.8	22.9	-175.83	-1,133.2	91.5	531.3	506.4	24.86	21.370			
3,700.0	3,218.6	3,700.0	3,397.5	32.8	23.3	-176.01	-1,159.1	92.2	553.7	528.1	25.53	21.683			
3,800.0	3,301.8	3,777.3	3,470.8	33.9	23.7	-176.20	-1,183.7	92.9	579.8	553.6	26.20	22.133			
3,900.0	3,385.0	3,850.0	3,540.6	35.0	24.0	-176.39	-1,204.1	93.5	609.7	582.9	26.83	22.722			
4,000.0	3,468.2	3,921.0	3,609.4	36.1	24.3	-176.56	-1,221.4	94.0	643.2	615.7	27.45	23.428			
4,100.0	3,551.4	4,000.0	3,686.7	37.1	24.6	-176.75	-1,237.6	94.4	680.2	652.1	28.08	24.226			
4,200.0	3,634.5	4,057.0	3,742.9	38.2	24.8	-176.88	-1,247.4	94.7	720.3	691.6	28.64	25.153			
4,247.8	3,674.3	4,100.0	3,785.4	38.7	24.9	-176.98	-1,253.6	94.9	740.7	711.8	28.93	25.601			
4,300.0	3,718.2	4,122.2	3,807.4	39.2	24.9	-177.07	-1,256.4	94.9	762.8	733.6	29.25	26.076			
4,400.0	3,804.6	4,200.0	3,884.8	39.9	25.1	-177.28	-1,264.4	95.2	803.8	773.9	29.82	26.950			
4,500.0	3,894.0	4,251.5	3,936.2	40.6	25.2	-177.42	-1,267.9	95.3	841.9	811.7	30.21	27.871			
4,600.0	3,985.9	4,315.9	4,000.5	41.1	25.3	-177.55	-1,270.3	95.3	877.6	847.1	30.47	28.801			
4,700.0	4,080.1	4,391.5	4,076.1	41.7	25.3	-177.68	-1,270.8	95.3	910.6	880.0	30.61	29.752			
4,800.0	4,176.2	4,487.5	4,172.2	42.1	25.4	-177.78	-1,270.8	95.3	938.3	907.7	30.62	30.645			

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.0	4,273.7	4,585.1	4,269.7	42.4	25.4	-177.86	-1,270.8	95.3	960.2	929.7	30.50	31.478		
5,000.0	4,372.4	4,683.8	4,368.4	42.7	25.5	-177.92	-1,270.8	95.3	976.1	945.8	30.26	32.260		
5,100.0	4,471.9	4,783.3	4,467.9	42.9	25.6	-177.95	-1,270.8	95.3	985.9	956.0	29.88	32.994		
5,200.0	4,571.9	4,883.2	4,567.9	42.9	25.7	-177.96	-1,270.8	95.3	989.6	960.3	29.38	33.688		
5,211.1	4,583.0	4,894.3	4,579.0	43.0	25.7	-0.67	-1,270.8	95.3	989.7	960.4	29.31	33.762		
5,300.0	4,671.9	4,983.2	4,667.9	43.0	25.7	-0.67	-1,270.8	95.3	989.7	960.1	29.54	33.502		
5,400.0	4,771.9	5,083.2	4,767.9	43.0	25.8	-0.67	-1,270.8	95.3	989.7	959.9	29.79	33.218		
5,500.0	4,871.9	5,183.2	4,867.9	43.1	25.9	-0.67	-1,270.8	95.3	989.7	959.6	30.05	32.934		
5,600.0	4,971.9	5,283.2	4,967.9	43.1	26.0	-0.67	-1,270.8	95.3	989.7	959.4	30.31	32.650		
5,700.0	5,071.9	5,383.2	5,067.9	43.2	26.0	-0.67	-1,270.8	95.3	989.7	959.1	30.58	32.366		
5,800.0	5,171.9	5,483.2	5,167.9	43.2	26.1	-0.67	-1,270.8	95.3	989.7	958.8	30.85	32.083		
5,900.0	5,271.9	5,583.2	5,267.9	43.2	26.2	-0.67	-1,270.8	95.3	989.7	958.6	31.12	31.801		
6,000.0	5,371.9	5,683.2	5,367.9	43.3	26.3	-0.67	-1,270.8	95.3	989.7	958.3	31.40	31.520		
6,100.0	5,471.9	5,783.2	5,467.9	43.3	26.4	-0.67	-1,270.8	95.3	989.7	958.0	31.68	31.240		
6,200.0	5,571.9	5,883.2	5,567.9	43.4	26.5	-0.67	-1,270.8	95.3	989.7	957.7	31.97	30.961		
6,300.0	5,671.9	5,983.2	5,667.9	43.4	26.6	-0.67	-1,270.8	95.3	989.7	957.4	32.25	30.684		
6,400.0	5,771.9	6,083.2	5,767.9	43.5	26.6	-0.67	-1,270.8	95.3	989.7	957.1	32.55	30.408		
6,500.0	5,871.9	6,183.2	5,867.9	43.5	26.7	-0.67	-1,270.8	95.3	989.7	956.8	32.84	30.134		
6,600.0	5,971.9	6,283.2	5,967.9	43.6	26.8	-0.67	-1,270.8	95.3	989.7	956.5	33.14	29.862		
6,700.0	6,071.9	6,383.2	6,067.9	43.6	26.9	-0.67	-1,270.8	95.3	989.7	956.2	33.44	29.593		
6,800.0	6,171.9	6,483.2	6,167.9	43.7	27.0	-0.67	-1,270.8	95.3	989.7	955.9	33.75	29.325		
6,865.1	6,237.0	6,548.3	6,233.0	43.7	27.1	-0.67	-1,270.8	95.3	989.7	955.7	33.95	29.151		



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
B&V - B&V 14D-07-07-95 - Wellbore #1 - Design #1															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	51.33	31.2	39.0	50.1						
100.0	100.0	96.0	96.0	0.1	0.1	51.33	31.2	39.0	50.0	49.8	0.19	267.049			
200.0	200.0	196.0	196.0	0.3	0.3	51.33	31.2	39.0	50.0	49.3	0.63	79.126 CC, ES			
300.0	299.9	295.9	295.9	0.5	0.5	-128.64	31.2	39.0	51.8	50.8	1.07	48.506			
400.0	399.5	395.5	395.5	0.8	0.8	-135.55	31.2	39.0	58.0	56.5	1.53	37.927			
500.0	498.3	495.9	495.9	1.1	1.0	-143.90	30.6	39.0	69.2	67.2	2.01	34.395			
600.0	596.0	598.8	598.6	1.5	1.2	-150.26	24.5	39.3	82.1	79.7	2.47	33.238			
700.0	692.3	702.7	701.6	2.0	1.4	-154.84	11.8	39.7	95.6	92.6	2.96	32.317			
800.0	786.7	807.6	804.8	2.6	1.7	-158.27	-7.6	40.5	109.2	105.7	3.48	31.364			
900.0	878.9	913.6	907.4	3.3	2.2	-160.91	-33.9	41.5	122.8	118.8	4.05	30.338			
1,000.0	968.5	1,020.7	1,009.2	4.1	2.7	-163.00	-67.2	42.7	136.2	131.6	4.66	29.236			
1,100.0	1,055.3	1,128.8	1,109.5	5.1	3.4	-164.70	-107.4	44.2	149.3	144.0	5.32	28.073			
1,163.4	1,108.7	1,197.9	1,172.2	5.7	4.0	-165.62	-136.6	45.3	157.4	151.6	5.75	27.351			
1,200.0	1,139.2	1,237.6	1,207.5	6.1	4.3	-166.10	-154.5	46.0	161.6	155.6	6.04	26.748			
1,300.0	1,222.4	1,336.9	1,295.8	7.1	5.1	-167.13	-200.1	47.7	172.2	165.4	6.84	25.174			
1,400.0	1,305.5	1,436.3	1,384.0	8.2	6.0	-168.04	-245.8	49.4	182.9	175.3	7.63	23.978			
1,500.0	1,388.7	1,535.7	1,472.3	9.3	6.8	-168.85	-291.5	51.1	193.6	185.2	8.43	22.956			
1,600.0	1,471.9	1,635.1	1,560.5	10.3	7.7	-169.57	-337.2	52.8	204.4	195.1	9.24	22.116			
1,700.0	1,555.1	1,734.5	1,648.8	11.4	8.6	-170.22	-382.9	54.5	215.1	205.1	10.05	21.410			
1,800.0	1,638.3	1,833.9	1,737.0	12.5	9.4	-170.81	-428.6	56.2	226.0	215.1	10.86	20.810			
1,900.0	1,721.4	1,933.3	1,825.3	13.5	10.3	-171.35	-474.3	57.9	236.8	225.1	11.67	20.292			
2,000.0	1,804.6	2,032.7	1,913.5	14.6	11.2	-171.84	-520.0	59.6	247.6	235.1	12.48	19.841			
2,100.0	1,887.8	2,132.1	2,001.8	15.7	12.1	-172.29	-565.6	61.3	258.5	245.2	13.29	19.444			
2,200.0	1,971.0	2,231.4	2,090.0	16.7	13.0	-172.70	-611.3	63.0	269.4	255.2	14.11	19.092			
2,300.0	2,054.1	2,330.8	2,178.3	17.8	13.9	-173.08	-657.0	64.7	280.2	265.3	14.92	18.778			
2,400.0	2,137.3	2,430.2	2,266.5	18.9	14.7	-173.43	-702.7	66.4	291.1	275.4	15.74	18.496			
2,500.0	2,220.5	2,529.6	2,354.8	20.0	15.6	-173.75	-748.4	68.1	302.0	285.5	16.56	18.240			
2,600.0	2,303.7	2,629.0	2,443.0	21.0	16.5	-174.06	-794.1	69.8	313.0	295.6	17.38	18.008			
2,700.0	2,386.9	2,728.4	2,531.3	22.1	17.4	-174.34	-839.8	71.5	323.9	305.7	18.20	17.797			
2,800.0	2,470.0	2,827.8	2,619.5	23.2	18.3	-174.60	-885.5	73.3	334.8	315.8	19.02	17.603			
2,900.0	2,553.2	2,927.2	2,707.8	24.3	19.2	-174.85	-931.2	75.0	345.8	325.9	19.84	17.424			
3,000.0	2,636.4	3,026.6	2,796.0	25.3	20.1	-175.08	-976.8	76.7	356.7	336.0	20.67	17.259			
3,100.0	2,719.6	3,126.0	2,884.3	26.4	21.0	-175.30	-1,022.5	78.4	367.7	346.2	21.49	17.106			
3,200.0	2,802.8	3,225.3	2,972.5	27.5	21.9	-175.51	-1,068.2	80.1	378.6	356.3	22.32	16.964			
3,300.0	2,885.9	3,324.7	3,060.8	28.5	22.7	-175.70	-1,113.9	81.8	389.6	366.4	23.15	16.832			
3,400.0	2,969.1	3,424.1	3,149.0	29.6	23.6	-175.89	-1,159.6	83.5	400.5	376.6	23.97	16.708			
3,500.0	3,052.3	3,523.5	3,237.3	30.7	24.5	-176.06	-1,205.3	85.2	411.5	386.7	24.80	16.592			
3,600.0	3,135.5	3,622.9	3,325.5	31.8	25.4	-176.22	-1,251.0	86.9	422.5	396.9	25.63	16.484			
3,700.0	3,218.6	3,722.3	3,413.8	32.8	26.3	-176.38	-1,296.7	88.6	433.5	407.0	26.46	16.381			
3,800.0	3,301.8	3,821.7	3,502.0	33.9	27.2	-176.53	-1,342.4	90.3	444.4	417.1	27.29	16.285			
3,900.0	3,385.0	3,921.1	3,590.3	35.0	28.1	-176.67	-1,388.0	92.0	455.4	427.3	28.12	16.194			
4,000.0	3,468.2	4,012.6	3,671.6	36.1	28.9	-176.80	-1,429.9	93.6	466.7	437.8	28.92	16.140 SF			
4,100.0	3,551.4	4,100.0	3,750.9	37.1	29.4	-176.93	-1,466.7	95.0	481.8	452.2	29.66	16.244			
4,200.0	3,634.5	4,164.7	3,810.8	38.2	29.7	-177.04	-1,491.1	95.9	501.2	470.9	30.31	16.536			
4,247.8	3,674.3	4,200.0	3,843.9	38.7	29.9	-177.10	-1,503.5	96.3	512.2	481.5	30.64	16.718			
4,300.0	3,718.2	4,238.8	3,880.5	39.2	30.1	-177.19	-1,516.2	96.8	524.4	493.4	31.03	16.899			
4,400.0	3,804.6	4,300.0	3,938.9	39.9	30.4	-177.32	-1,534.5	97.5	547.0	515.3	31.65	17.281			
4,500.0	3,894.0	4,385.2	4,021.2	40.6	30.7	-177.46	-1,556.4	98.3	567.5	535.3	32.17	17.643			
4,600.0	3,985.9	4,457.8	4,092.2	41.1	31.0	-177.57	-1,571.6	98.9	586.6	554.1	32.49	18.056			
4,700.0	4,080.1	4,530.0	4,163.4	41.7	31.2	-177.66	-1,583.6	99.3	604.1	571.4	32.65	18.501			
4,800.0	4,176.2	4,600.0	4,232.9	42.1	31.3	-177.73	-1,592.2	99.6	619.9	587.2	32.65	18.986			

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:		0.0 usft
B&V - B&V 14D-07-07-95 - Wellbore #1 - Design #1													Offset Well Error:		0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,673.5	4,306.1	42.4	31.4	-177.79	-1,598.1	99.9	633.9	601.5	32.48	19.518			
5,000.0	4,372.4	4,744.8	4,377.4	42.7	31.5	-177.84	-1,600.6	100.0	646.3	614.1	32.15	20.102			
5,100.0	4,471.9	4,835.4	4,467.9	42.9	31.6	-177.88	-1,600.8	100.0	655.9	624.2	31.69	20.699			
5,200.0	4,571.9	4,935.3	4,567.9	42.9	31.6	-177.90	-1,600.8	100.0	659.6	628.5	31.09	21.218			
5,211.1	4,583.0	4,946.4	4,579.0	43.0	31.6	-0.61	-1,600.8	100.0	659.7	628.6	31.01	21.270			
5,300.0	4,671.9	5,035.3	4,667.9	43.0	31.7	-0.61	-1,600.8	100.0	659.7	628.4	31.22	21.132			
5,400.0	4,771.9	5,135.3	4,767.9	43.0	31.7	-0.61	-1,600.8	100.0	659.7	628.2	31.44	20.981			
5,500.0	4,871.9	5,235.3	4,867.9	43.1	31.8	-0.61	-1,600.8	100.0	659.7	628.0	31.67	20.829			
5,600.0	4,971.9	5,335.3	4,967.9	43.1	31.9	-0.61	-1,600.8	100.0	659.7	627.8	31.91	20.676			
5,700.0	5,071.9	5,435.3	5,067.9	43.2	31.9	-0.61	-1,600.8	100.0	659.7	627.5	32.14	20.522			
5,800.0	5,171.9	5,535.3	5,167.9	43.2	32.0	-0.61	-1,600.8	100.0	659.7	627.3	32.39	20.368			
5,900.0	5,271.9	5,635.3	5,267.9	43.2	32.0	-0.61	-1,600.8	100.0	659.7	627.0	32.64	20.213			
6,000.0	5,371.9	5,735.3	5,367.9	43.3	32.1	-0.61	-1,600.8	100.0	659.7	626.8	32.89	20.058			
6,100.0	5,471.9	5,835.3	5,467.9	43.3	32.2	-0.61	-1,600.8	100.0	659.7	626.5	33.14	19.903			
6,200.0	5,571.9	5,935.3	5,567.9	43.4	32.2	-0.61	-1,600.8	100.0	659.7	626.3	33.40	19.748			
6,300.0	5,671.9	6,035.3	5,667.9	43.4	32.3	-0.61	-1,600.8	100.0	659.7	626.0	33.67	19.593			
6,400.0	5,771.9	6,135.3	5,767.9	43.5	32.4	-0.61	-1,600.8	100.0	659.7	625.7	33.94	19.439			
6,500.0	5,871.9	6,235.3	5,867.9	43.5	32.4	-0.61	-1,600.8	100.0	659.7	625.5	34.21	19.284			
6,600.0	5,971.9	6,335.3	5,967.9	43.6	32.5	-0.61	-1,600.8	100.0	659.7	625.2	34.48	19.130			
6,700.0	6,071.9	6,435.3	6,067.9	43.6	32.6	-0.61	-1,600.8	100.0	659.7	624.9	34.76	18.976			
6,800.0	6,171.9	6,535.3	6,167.9	43.7	32.7	-0.61	-1,600.8	100.0	659.7	624.6	35.04	18.823			
6,865.1	6,237.0	6,600.4	6,233.0	43.7	32.7	-0.61	-1,600.8	100.0	659.7	624.4	35.23	18.724			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													B&V - B&V 21A-18-07-95 - Wellbore #1 - Design #1		Offset Site Error: 0.0 usft	
Survey Program: 0-MWD															Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	51.34	23.4	29.3	37.7							
100.0	100.0	96.0	96.0	0.1	0.1	51.34	23.4	29.3	37.5	37.3	0.19	200.272				
200.0	200.0	196.0	196.0	0.3	0.3	51.34	23.4	29.3	37.5	36.8	0.63	59.340	CC, ES			
300.0	299.9	295.9	295.9	0.5	0.5	-129.50	23.4	29.3	39.3	38.3	1.07	36.815				
400.0	399.5	395.5	395.5	0.8	0.8	-138.22	23.4	29.3	45.7	44.2	1.53	29.876				
500.0	498.3	495.8	495.8	1.1	1.0	-145.65	21.1	30.8	56.7	54.7	2.00	28.351				
600.0	596.0	596.6	596.1	1.5	1.2	-148.68	13.5	35.7	70.6	68.1	2.49	28.352				
700.0	692.3	697.6	696.0	2.0	1.4	-149.06	0.8	44.0	86.8	83.8	3.07	28.285				
800.0	786.7	798.8	794.9	2.6	1.8	-147.95	-17.1	55.6	105.2	101.4	3.79	27.784				
900.0	878.9	900.0	892.2	3.3	2.3	-146.03	-40.1	70.6	125.8	121.2	4.69	26.855				
1,000.0	968.5	1,001.0	987.6	4.1	2.9	-143.69	-68.0	88.8	148.7	142.9	5.80	25.653				
1,100.0	1,055.3	1,101.7	1,080.4	5.1	3.6	-141.16	-100.7	110.1	173.9	166.8	7.14	24.367				
1,163.4	1,108.7	1,165.4	1,137.8	5.7	4.2	-139.53	-123.8	125.1	191.2	183.0	8.12	23.541				
1,200.0	1,139.2	1,202.2	1,170.5	6.1	4.5	-138.74	-138.0	134.4	201.3	192.5	8.72	23.076				
1,300.0	1,222.4	1,302.8	1,257.7	7.1	5.5	-135.94	-180.0	161.7	227.6	217.0	10.58	21.505				
1,400.0	1,305.5	1,403.1	1,341.5	8.2	6.6	-132.38	-226.1	191.8	252.6	239.9	12.71	19.875				
1,500.0	1,388.7	1,499.6	1,419.7	9.3	7.7	-128.71	-273.6	222.6	277.4	262.4	14.98	18.519				
1,600.0	1,471.9	1,595.0	1,496.9	10.3	8.9	-125.63	-320.6	253.3	303.0	285.8	17.26	17.562				
1,700.0	1,555.1	1,690.5	1,574.1	11.4	10.0	-123.03	-367.6	283.9	329.4	309.9	19.53	16.863				
1,800.0	1,638.3	1,785.9	1,651.3	12.5	11.2	-120.81	-414.6	314.5	356.3	334.5	21.81	16.340				
1,900.0	1,721.4	1,881.4	1,728.6	13.5	12.4	-118.90	-461.6	345.1	383.6	359.6	24.07	15.938				
2,000.0	1,804.6	1,976.8	1,805.8	14.6	13.5	-117.24	-508.6	375.7	411.3	385.0	26.33	15.624				
2,100.0	1,887.8	2,072.3	1,883.0	15.7	14.7	-115.80	-555.6	406.3	439.3	410.7	28.57	15.374				
2,200.0	1,971.0	2,167.7	1,960.2	16.7	15.9	-114.52	-602.6	436.9	467.5	436.7	30.81	15.172				
2,300.0	2,054.1	2,263.2	2,037.4	17.8	17.1	-113.38	-649.6	467.5	495.9	462.8	33.05	15.006				
2,400.0	2,137.3	2,358.6	2,114.7	18.9	18.3	-112.37	-696.6	498.2	524.4	489.2	35.27	14.869				
2,500.0	2,220.5	2,454.1	2,191.9	20.0	19.5	-111.47	-743.7	528.8	553.1	515.6	37.49	14.754				
2,600.0	2,303.7	2,549.5	2,269.1	21.0	20.6	-110.65	-790.7	559.4	581.9	542.2	39.70	14.657				
2,700.0	2,386.9	2,644.9	2,346.3	22.1	21.8	-109.91	-837.7	590.0	610.8	568.9	41.91	14.574				
2,800.0	2,470.0	2,740.4	2,423.5	23.2	23.0	-109.23	-884.7	620.6	639.8	595.7	44.12	14.503				
2,900.0	2,553.2	2,835.8	2,500.8	24.3	24.2	-108.62	-931.7	651.2	668.9	622.5	46.32	14.441				
3,000.0	2,636.4	2,931.3	2,578.0	25.3	25.4	-108.05	-978.7	681.8	698.0	649.5	48.51	14.387				
3,100.0	2,719.6	3,026.7	2,655.2	26.4	26.6	-107.53	-1,025.7	712.4	727.2	676.5	50.71	14.340				
3,200.0	2,802.8	3,122.2	2,732.4	27.5	27.8	-107.05	-1,072.7	743.1	756.4	703.5	52.90	14.299				
3,300.0	2,885.9	3,217.6	2,809.6	28.5	29.0	-106.61	-1,119.7	773.7	785.7	730.6	55.09	14.263				
3,400.0	2,969.1	3,313.1	2,886.9	29.6	30.1	-106.19	-1,166.7	804.3	815.0	757.7	57.27	14.230				
3,500.0	3,052.3	3,408.5	2,964.1	30.7	31.3	-105.81	-1,213.7	834.9	844.3	784.9	59.46	14.201				
3,600.0	3,135.5	3,504.0	3,041.3	31.8	32.5	-105.45	-1,260.8	865.5	873.7	812.1	61.64	14.175				
3,700.0	3,218.6	3,599.4	3,118.5	32.8	33.7	-105.12	-1,307.8	896.1	903.1	839.3	63.82	14.152				
3,800.0	3,301.8	3,694.9	3,195.7	33.9	34.9	-104.80	-1,354.8	926.7	932.6	866.6	66.00	14.131				
3,900.0	3,385.0	3,790.3	3,273.0	35.0	36.1	-104.51	-1,401.8	957.3	962.1	893.9	68.17	14.112				
4,000.0	3,468.2	3,885.7	3,350.2	36.1	37.3	-104.23	-1,448.8	988.0	991.5	921.2	70.35	14.094				
4,100.0	3,551.4	3,981.2	3,427.4	37.1	38.5	-103.97	-1,495.8	1,018.6	1,021.1	948.5	72.53	14.079				
4,200.0	3,634.5	4,076.6	3,504.6	38.2	39.7	-103.72	-1,542.8	1,049.2	1,050.6	975.9	74.70	14.064				
4,247.8	3,674.3	4,122.3	3,541.5	38.7	40.2	-103.61	-1,565.3	1,063.8	1,064.7	989.0	75.74	14.058				
4,300.0	3,718.2	4,172.1	3,581.9	39.2	40.9	-103.99	-1,589.8	1,079.8	1,079.9	1,003.1	76.87	14.049	SF			
4,400.0	3,804.6	4,267.5	3,659.1	39.9	42.0	-104.44	-1,636.8	1,110.4	1,108.1	1,029.2	78.85	14.053				
4,500.0	3,894.0	4,362.6	3,735.9	40.6	43.2	-104.57	-1,683.6	1,140.9	1,134.9	1,054.2	80.76	14.053				
4,600.0	3,985.9	4,456.9	3,812.2	41.1	44.4	-104.41	-1,730.1	1,171.1	1,160.6	1,078.0	82.58	14.053				
4,700.0	4,080.1	4,550.1	3,887.7	41.7	45.6	-103.99	-1,776.0	1,201.0	1,185.3	1,101.0	84.30	14.061				
4,800.0	4,176.2	4,641.9	3,961.9	42.1	46.7	-103.36	-1,821.2	1,230.5	1,209.2	1,123.4	85.88	14.081				

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 21A-18-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft	
Survey Program:		0-MWD											Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
4,900.0	4,273.7	4,736.7	4,038.7	42.4	47.9	-102.47	-1,867.8	1,260.8	1,232.8	1,145.4	87.33	14.116				
5,000.0	4,372.4	4,858.0	4,140.2	42.7	49.1	-101.04	-1,923.5	1,297.1	1,254.7	1,166.1	88.64	14.155				
5,100.0	4,471.9	4,985.2	4,251.6	42.9	50.1	-99.57	-1,974.9	1,330.5	1,274.2	1,184.6	89.62	14.218				
5,200.0	4,571.9	5,118.5	4,373.1	42.9	51.0	-98.05	-2,020.8	1,360.4	1,290.9	1,200.6	90.31	14.294				
5,211.1	4,583.0	5,133.8	4,387.3	43.0	51.1	79.41	-2,025.5	1,363.5	1,292.6	1,202.2	90.37	14.304				
5,300.0	4,671.9	5,259.0	4,505.4	43.0	51.8	81.10	-2,060.1	1,386.0	1,304.7	1,214.1	90.65	14.393				
5,400.0	4,771.9	5,407.2	4,648.9	43.0	52.4	82.57	-2,091.0	1,406.2	1,315.5	1,224.7	90.86	14.478				
5,500.0	4,871.9	5,561.2	4,800.9	43.1	52.8	83.53	-2,111.5	1,419.5	1,322.6	1,231.6	90.99	14.536				
5,600.0	4,971.9	5,718.6	4,957.9	43.1	53.0	83.92	-2,120.1	1,425.1	1,325.6	1,234.5	91.10	14.551				
5,700.0	5,071.9	5,828.5	5,067.9	43.2	53.0	83.93	-2,120.2	1,425.2	1,325.6	1,234.4	91.19	14.537				
5,800.0	5,171.9	5,928.5	5,167.9	43.2	53.1	83.93	-2,120.2	1,425.2	1,325.6	1,234.4	91.27	14.524				
5,900.0	5,271.9	6,028.5	5,267.9	43.2	53.1	83.93	-2,120.2	1,425.2	1,325.6	1,234.3	91.35	14.511				
6,000.0	5,371.9	6,128.5	5,367.9	43.3	53.2	83.93	-2,120.2	1,425.2	1,325.6	1,234.2	91.44	14.497				
6,100.0	5,471.9	6,228.5	5,467.9	43.3	53.2	83.93	-2,120.2	1,425.2	1,325.6	1,234.1	91.53	14.483				
6,200.0	5,571.9	6,328.5	5,567.9	43.4	53.2	83.93	-2,120.2	1,425.2	1,325.6	1,234.0	91.62	14.469				
6,300.0	5,671.9	6,428.5	5,667.9	43.4	53.3	83.93	-2,120.2	1,425.2	1,325.6	1,233.9	91.71	14.454				
6,400.0	5,771.9	6,528.5	5,767.9	43.5	53.3	83.93	-2,120.2	1,425.2	1,325.6	1,233.8	91.81	14.440				
6,500.0	5,871.9	6,628.5	5,867.9	43.5	53.4	83.93	-2,120.2	1,425.2	1,325.6	1,233.7	91.90	14.424				
6,600.0	5,971.9	6,728.5	5,967.9	43.6	53.4	83.93	-2,120.2	1,425.2	1,325.6	1,233.6	92.00	14.409				
6,700.0	6,071.9	6,828.5	6,067.9	43.6	53.5	83.93	-2,120.2	1,425.2	1,325.6	1,233.5	92.10	14.393				
6,800.0	6,171.9	6,928.5	6,167.9	43.7	53.5	83.93	-2,120.2	1,425.2	1,325.6	1,233.4	92.20	14.377				
6,865.1	6,237.0	6,993.7	6,233.0	43.7	53.5	83.93	-2,120.2	1,425.2	1,325.6	1,233.4	92.27	14.366				

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													B&V - B&V 23A-07-07-95 - Wellbore #1 - Design #1		Offset Site Error: 0.0 usft	
Survey Program: 0-MWD															Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	51.33	85.9	107.3	137.5							
100.0	100.0	96.0	96.0	0.1	0.1	51.33	85.9	107.3	137.4	137.2	0.19	734.366				
200.0	200.0	196.0	196.0	0.3	0.3	51.33	85.9	107.3	137.4	136.8	0.63	217.592 CC, ES				
300.0	299.9	295.9	295.9	0.5	0.5	-126.92	85.9	107.3	139.2	138.2	1.07	130.406				
400.0	399.5	395.5	395.5	0.8	0.8	-129.65	85.9	107.3	144.9	143.4	1.53	95.002				
500.0	498.3	488.0	487.9	1.1	1.0	-133.04	86.5	109.2	157.0	155.0	2.03	77.535				
600.0	596.0	578.2	577.9	1.5	1.2	-136.19	88.5	115.2	178.1	175.6	2.59	68.705				
700.0	692.3	665.5	664.7	2.0	1.4	-138.73	91.8	124.8	208.0	204.8	3.21	64.742				
800.0	786.7	749.3	747.3	2.6	1.6	-140.55	96.1	137.5	246.3	242.4	3.88	63.409				
900.0	878.9	828.8	825.2	3.3	1.9	-141.66	101.2	152.7	292.3	287.7	4.60	63.528				
1,000.0	968.5	900.0	894.3	4.1	2.2	-142.10	106.7	169.0	345.5	340.1	5.36	64.449				
1,100.0	1,055.3	973.0	964.5	5.1	2.6	-142.19	113.2	188.1	405.2	399.0	6.20	65.389				
1,163.4	1,108.7	1,014.3	1,003.8	5.7	2.8	-141.96	117.2	200.1	446.2	439.4	6.75	66.103				
1,200.0	1,139.2	1,037.4	1,025.7	6.1	3.0	-142.44	119.6	207.1	470.7	463.6	7.06	66.676				
1,300.0	1,222.4	1,100.0	1,084.4	7.1	3.3	-143.40	126.5	227.5	538.7	530.8	7.91	68.086				
1,400.0	1,305.5	1,158.0	1,138.3	8.2	3.8	-143.94	133.4	247.9	608.5	599.7	8.79	69.232				
1,500.0	1,388.7	1,214.9	1,190.4	9.3	4.2	-144.23	140.7	269.5	679.7	670.0	9.69	70.167				
1,600.0	1,471.9	1,279.6	1,249.1	10.3	4.7	-144.39	149.4	295.3	752.1	741.4	10.63	70.750				
1,700.0	1,555.1	1,348.6	1,311.6	11.4	5.3	-144.52	158.8	322.9	824.5	812.9	11.60	71.087				
1,800.0	1,638.3	1,417.6	1,374.2	12.5	5.9	-144.64	168.1	350.5	896.9	884.3	12.57	71.364				
1,900.0	1,721.4	1,486.5	1,436.7	13.5	6.4	-144.73	177.4	378.0	969.3	955.7	13.55	71.535				
2,000.0	1,804.6	1,555.5	1,499.2	14.6	7.0	-144.82	186.7	405.6	1,041.7	1,027.1	14.54	71.636				
2,100.0	1,887.8	1,624.5	1,561.7	15.7	7.6	-144.89	196.0	433.2	1,114.1	1,098.5	15.54	71.699				
2,200.0	1,971.0	1,693.4	1,624.3	16.7	8.2	-144.95	205.4	460.7	1,186.5	1,169.9	16.54	71.728				
2,300.0	2,054.1	1,762.4	1,686.8	17.8	8.8	-145.01	214.7	488.3	1,258.9	1,241.3	17.55	71.728				
2,400.0	2,137.3	1,831.4	1,749.3	18.9	9.4	-145.06	224.0	515.9	1,331.3	1,312.7	18.56	71.716				
2,500.0	2,220.5	1,900.3	1,811.8	20.0	10.0	-145.10	233.3	543.4	1,403.7	1,384.1	19.58	71.695				
2,600.0	2,303.7	1,969.3	1,874.4	21.0	10.6	-145.14	242.6	571.0	1,476.1	1,455.5	20.60	71.661				
2,700.0	2,386.9	2,038.2	1,936.9	22.1	11.2	-145.18	252.0	598.6	1,548.5	1,526.9	21.62	71.623				
2,800.0	2,470.0	2,107.2	1,999.4	23.2	11.8	-145.21	261.3	626.1	1,620.9	1,598.3	22.64	71.583				
2,900.0	2,553.2	2,176.2	2,061.9	24.3	12.4	-145.24	270.6	653.7	1,693.4	1,669.7	23.67	71.539				
3,000.0	2,636.4	2,245.1	2,124.5	25.3	13.0	-145.27	279.9	681.3	1,765.8	1,741.1	24.70	71.493				
3,100.0	2,719.6	2,314.1	2,187.0	26.4	13.7	-145.30	289.2	708.8	1,838.2	1,812.5	25.73	71.448				
3,200.0	2,802.8	2,383.1	2,249.5	27.5	14.3	-145.32	298.6	736.4	1,910.6	1,883.8	26.76	71.403				
3,300.0	2,885.9	2,452.0	2,312.0	28.5	14.9	-145.34	307.9	764.0	1,983.0	1,955.2	27.79	71.357				
3,400.0	2,969.1	2,521.0	2,374.6	29.6	15.5	-145.37	317.2	791.6	2,055.4	2,026.6	28.82	71.312				
3,500.0	3,052.3	2,590.0	2,437.1	30.7	16.1	-145.38	326.5	819.1	2,127.8	2,098.0	29.86	71.268				
3,600.0	3,135.5	2,658.9	2,499.6	31.8	16.7	-145.40	335.8	846.7	2,200.2	2,169.4	30.89	71.225				
3,700.0	3,218.6	2,727.9	2,562.1	32.8	17.3	-145.42	345.2	874.3	2,272.7	2,240.7	31.93	71.183				
3,800.0	3,301.8	2,796.9	2,624.7	33.9	17.9	-145.43	354.5	901.8	2,345.1	2,312.1	32.96	71.142				
3,900.0	3,385.0	2,865.8	2,687.2	35.0	18.5	-145.45	363.8	929.4	2,417.5	2,383.5	34.00	71.102				
4,000.0	3,468.2	2,934.8	2,749.7	36.1	19.1	-145.46	373.1	957.0	2,489.9	2,454.9	35.04	71.063				
4,100.0	3,551.4	3,003.8	2,812.2	37.1	19.7	-145.48	382.5	984.5	2,562.3	2,526.2	36.08	71.025				
4,200.0	3,634.5	3,072.7	2,874.8	38.2	20.3	-145.49	391.8	1,012.1	2,634.7	2,597.6	37.11	70.988				
4,247.8	3,674.3	3,105.7	2,904.6	38.7	20.6	-145.49	396.2	1,025.3	2,669.3	2,631.7	37.61	70.971				
4,300.0	3,718.2	3,142.2	2,937.7	39.2	21.0	-146.53	401.2	1,039.9	2,706.6	2,668.5	38.19	70.873				
4,400.0	3,804.6	3,214.8	3,003.5	39.9	21.6	-148.23	411.0	1,068.9	2,775.4	2,736.1	39.26	70.694				
4,500.0	3,894.0	3,290.6	3,072.3	40.6	22.3	-149.60	421.2	1,099.2	2,840.2	2,799.9	40.34	70.403				
4,600.0	3,985.9	3,369.4	3,143.7	41.1	23.0	-150.69	431.9	1,130.7	2,901.0	2,859.6	41.41	70.056				
4,700.0	4,080.1	3,450.8	3,217.6	41.7	23.7	-151.55	442.9	1,163.2	2,957.5	2,915.1	42.44	69.694				
4,800.0	4,176.2	3,534.7	3,293.6	42.1	24.4	-152.20	454.2	1,196.8	3,009.6	2,966.2	43.40	69.346				

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 23A-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,542.5	4,269.7	42.4	28.2	-151.83	519.5	1,389.8	3,035.4	2,988.6	46.85	64.792			
5,000.0	4,372.4	4,641.2	4,368.4	42.7	28.3	-152.20	519.5	1,389.8	3,049.5	3,002.3	47.17	64.653			
5,100.0	4,471.9	4,740.7	4,467.9	42.9	28.4	-152.43	519.5	1,389.8	3,058.2	3,010.8	47.35	64.593			
5,200.0	4,571.9	4,840.7	4,567.9	42.9	28.4	-152.52	519.5	1,389.8	3,061.5	3,014.1	47.39	64.603			
5,211.1	4,583.0	4,851.8	4,579.0	43.0	28.5	24.77	519.5	1,389.8	3,061.5	3,014.2	47.39	64.608			
5,300.0	4,671.9	4,940.7	4,667.9	43.0	28.5	24.77	519.5	1,389.8	3,061.5	3,014.0	47.54	64.405			
5,400.0	4,771.9	5,040.7	4,767.9	43.0	28.6	24.77	519.5	1,389.8	3,061.5	3,013.8	47.70	64.183			
5,500.0	4,871.9	5,140.7	4,867.9	43.1	28.7	24.77	519.5	1,389.8	3,061.5	3,013.7	47.87	63.958			
5,600.0	4,971.9	5,240.7	4,967.9	43.1	28.8	24.77	519.5	1,389.8	3,061.5	3,013.5	48.04	63.729			
5,700.0	5,071.9	5,340.7	5,067.9	43.2	28.8	24.77	519.5	1,389.8	3,061.5	3,013.3	48.22	63.497			
5,800.0	5,171.9	5,440.7	5,167.9	43.2	28.9	24.77	519.5	1,389.8	3,061.5	3,013.1	48.39	63.263			
5,900.0	5,271.9	5,540.7	5,267.9	43.2	29.0	24.77	519.5	1,389.8	3,061.5	3,013.0	48.58	63.025			
6,000.0	5,371.9	5,640.7	5,367.9	43.3	29.1	24.77	519.5	1,389.8	3,061.5	3,012.8	48.76	62.785			
6,100.0	5,471.9	5,740.7	5,467.9	43.3	29.2	24.77	519.5	1,389.8	3,061.5	3,012.6	48.95	62.543			
6,200.0	5,571.9	5,840.7	5,567.9	43.4	29.3	24.77	519.5	1,389.8	3,061.5	3,012.4	49.14	62.298			
6,300.0	5,671.9	5,940.7	5,667.9	43.4	29.4	24.77	519.5	1,389.8	3,061.5	3,012.2	49.34	62.050			
6,400.0	5,771.9	6,040.7	5,767.9	43.5	29.5	24.77	519.5	1,389.8	3,061.5	3,012.0	49.54	61.801			
6,500.0	5,871.9	6,140.7	5,867.9	43.5	29.6	24.77	519.5	1,389.8	3,061.5	3,011.8	49.74	61.550			
6,600.0	5,971.9	6,240.7	5,967.9	43.6	29.7	24.77	519.5	1,389.8	3,061.5	3,011.6	49.95	61.296			
6,700.0	6,071.9	6,340.7	6,067.9	43.6	29.8	24.77	519.5	1,389.8	3,061.5	3,011.4	50.16	61.041			
6,800.0	6,171.9	6,440.7	6,167.9	43.7	29.9	24.77	519.5	1,389.8	3,061.5	3,011.2	50.37	60.784			
6,865.1	6,237.0	6,505.8	6,233.0	43.7	29.9	24.77	519.5	1,389.8	3,061.5	3,011.0	50.51	60.616 SF			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													B&V - B&V 23B-07-07-95 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD															Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	51.33	70.3	87.8	112.5								
100.0	100.0	96.0	96.0	0.1	0.1	51.33	70.3	87.8	112.4	112.3	0.19	600.843					
200.0	200.0	196.0	196.0	0.3	0.3	51.33	70.3	87.8	112.4	111.8	0.63	178.029	CC, ES				
300.0	299.9	295.9	295.9	0.5	0.5	-127.15	70.3	87.8	114.3	113.2	1.07	107.000					
400.0	399.5	395.5	395.5	0.8	0.8	-130.47	70.3	87.8	120.0	118.5	1.53	78.645					
500.0	498.3	489.8	489.8	1.1	1.0	-134.38	70.4	89.9	132.1	130.0	2.02	65.228					
600.0	596.0	582.3	582.0	1.5	1.2	-137.60	71.0	96.4	152.6	150.0	2.59	58.994					
700.0	692.3	672.4	671.5	2.0	1.4	-139.88	72.0	107.1	181.1	177.9	3.21	56.500					
800.0	786.7	759.6	757.4	2.6	1.7	-141.26	73.3	121.4	217.4	213.5	3.89	55.904					
900.0	878.9	843.1	839.1	3.3	2.0	-141.92	74.9	138.7	260.7	256.1	4.64	56.216					
1,000.0	968.5	922.4	915.9	4.1	2.3	-142.01	76.7	158.5	310.8	305.3	5.46	56.957					
1,100.0	1,055.3	1,000.0	990.2	5.1	2.7	-141.70	78.7	180.9	367.0	360.6	6.35	57.777					
1,163.4	1,108.7	1,042.3	1,030.3	5.7	3.0	-141.24	80.0	194.4	405.6	398.6	6.95	58.347					
1,200.0	1,139.2	1,067.7	1,054.2	6.1	3.1	-141.56	80.8	202.8	428.6	421.3	7.30	58.754					
1,300.0	1,222.4	1,135.5	1,117.4	7.1	3.6	-142.07	83.0	227.1	492.6	484.3	8.27	59.592					
1,400.0	1,305.5	1,205.8	1,182.1	8.2	4.1	-142.20	85.5	254.6	558.1	548.8	9.30	60.039					
1,500.0	1,388.7	1,275.4	1,245.6	9.3	4.7	-142.17	88.1	283.0	624.3	614.0	10.36	60.272					
1,600.0	1,471.9	1,350.3	1,313.9	10.3	5.3	-142.14	90.8	313.5	690.6	679.1	11.46	60.237					
1,700.0	1,555.1	1,425.2	1,382.2	11.4	5.9	-142.11	93.6	344.0	756.9	744.3	12.57	60.195					
1,800.0	1,638.3	1,500.1	1,450.6	12.5	6.5	-142.10	96.4	374.6	823.1	809.4	13.69	60.106					
1,900.0	1,721.4	1,575.0	1,518.9	13.5	7.2	-142.08	99.2	405.1	889.4	874.6	14.83	59.980					
2,000.0	1,804.6	1,649.8	1,587.2	14.6	7.8	-142.07	102.0	435.7	955.7	939.7	15.97	59.850					
2,100.0	1,887.8	1,724.7	1,655.5	15.7	8.5	-142.05	104.8	466.2	1,021.9	1,004.8	17.11	59.720					
2,200.0	1,971.0	1,799.6	1,723.9	16.7	9.1	-142.04	107.6	496.7	1,088.2	1,069.9	18.26	59.591					
2,300.0	2,054.1	1,874.5	1,792.2	17.8	9.7	-142.03	110.4	527.3	1,154.5	1,135.1	19.42	59.462					
2,400.0	2,137.3	1,949.4	1,860.5	18.9	10.4	-142.02	113.1	557.8	1,220.7	1,200.2	20.57	59.340					
2,500.0	2,220.5	2,024.3	1,928.8	20.0	11.0	-142.02	115.9	588.4	1,287.0	1,265.3	21.73	59.224					
2,600.0	2,303.7	2,099.2	1,997.2	21.0	11.7	-142.01	118.7	618.9	1,353.3	1,330.4	22.89	59.115					
2,700.0	2,386.9	2,174.1	2,065.5	22.1	12.3	-142.00	121.5	649.5	1,419.5	1,395.5	24.06	59.010					
2,800.0	2,470.0	2,249.0	2,133.8	23.2	13.0	-142.00	124.3	680.0	1,485.8	1,460.6	25.22	58.911					
2,900.0	2,553.2	2,323.9	2,202.1	24.3	13.6	-141.99	127.1	710.5	1,552.1	1,525.7	26.39	58.818					
3,000.0	2,636.4	2,398.8	2,270.5	25.3	14.3	-141.99	129.9	741.1	1,618.3	1,590.8	27.56	58.730					
3,100.0	2,719.6	2,473.7	2,338.8	26.4	14.9	-141.98	132.7	771.6	1,684.6	1,655.9	28.72	58.647					
3,200.0	2,802.8	2,548.5	2,407.1	27.5	15.6	-141.98	135.4	802.2	1,750.9	1,721.0	29.89	58.568					
3,300.0	2,885.9	2,623.4	2,475.4	28.5	16.2	-141.98	138.2	832.7	1,817.1	1,786.1	31.07	58.493					
3,400.0	2,969.1	2,698.3	2,543.8	29.6	16.9	-141.97	141.0	863.2	1,883.4	1,851.2	32.24	58.423					
3,500.0	3,052.3	2,773.2	2,612.1	30.7	17.5	-141.97	143.8	893.8	1,949.7	1,916.3	33.41	58.356					
3,600.0	3,135.5	2,848.1	2,680.4	31.8	18.2	-141.97	146.6	924.3	2,015.9	1,981.3	34.58	58.293					
3,700.0	3,218.6	2,923.0	2,748.7	32.8	18.8	-141.96	149.4	954.9	2,082.2	2,046.4	35.76	58.232					
3,800.0	3,301.8	2,997.9	2,817.1	33.9	19.5	-141.96	152.2	985.4	2,148.5	2,111.5	36.93	58.175					
3,900.0	3,385.0	3,072.8	2,885.4	35.0	20.1	-141.96	154.9	1,015.9	2,214.7	2,176.6	38.11	58.121					
4,000.0	3,468.2	3,147.7	2,953.7	36.1	20.8	-141.96	157.7	1,046.5	2,281.0	2,241.7	39.28	58.069					
4,100.0	3,551.4	3,222.6	3,022.0	37.1	21.4	-141.95	160.5	1,077.0	2,347.3	2,306.8	40.46	58.019					
4,200.0	3,634.5	3,297.5	3,090.4	38.2	22.1	-141.95	163.3	1,107.6	2,413.5	2,371.9	41.63	57.972					
4,247.8	3,674.3	3,333.3	3,123.0	38.7	22.4	-141.95	164.6	1,122.2	2,445.2	2,403.0	42.19	57.950					
4,300.0	3,718.2	3,372.8	3,159.1	39.2	22.7	-142.89	166.1	1,138.3	2,479.3	2,436.4	42.87	57.839					
4,400.0	3,804.6	3,450.8	3,230.2	39.9	23.4	-144.44	169.0	1,170.1	2,541.7	2,497.7	44.09	57.651					
4,500.0	3,894.0	3,531.5	3,303.9	40.6	24.1	-145.68	172.0	1,203.0	2,600.3	2,554.9	45.31	57.384					
4,600.0	3,985.9	3,691.0	3,450.4	41.1	25.3	-146.43	177.7	1,265.7	2,654.3	2,607.4	46.93	56.562					
4,700.0	4,080.1	4,096.9	3,841.5	41.7	27.2	-147.00	187.3	1,370.9	2,696.7	2,647.7	49.02	55.008					
4,800.0	4,176.2	4,428.8	4,172.2	42.1	27.7	-148.21	189.5	1,394.4	2,723.4	2,673.5	49.85	54.627					

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
B&V - B&V 23B-07-07-95 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,526.3	4,269.7	42.4	27.8	-148.80	189.5	1,394.4	2,742.1	2,691.9	50.26	54.564			
5,000.0	4,372.4	4,625.1	4,368.4	42.7	27.8	-149.22	189.5	1,394.4	2,755.8	2,705.3	50.53	54.539			
5,100.0	4,471.9	4,724.6	4,467.9	42.9	27.9	-149.47	189.5	1,394.4	2,764.3	2,713.6	50.68	54.547			
5,200.0	4,571.9	4,824.5	4,567.9	42.9	28.0	-149.57	189.5	1,394.4	2,767.5	2,716.8	50.70	54.584			
5,211.1	4,583.0	4,835.6	4,579.0	43.0	28.0	27.72	189.5	1,394.4	2,767.5	2,716.8	50.70	54.589			
5,300.0	4,671.9	4,924.5	4,667.9	43.0	28.1	27.72	189.5	1,394.4	2,767.5	2,716.7	50.84	54.439			
5,400.0	4,771.9	5,024.5	4,767.9	43.0	28.1	27.72	189.5	1,394.4	2,767.5	2,716.5	50.99	54.275			
5,500.0	4,871.9	5,124.5	4,867.9	43.1	28.2	27.72	189.5	1,394.4	2,767.5	2,716.4	51.15	54.109			
5,600.0	4,971.9	5,224.5	4,967.9	43.1	28.3	27.72	189.5	1,394.4	2,767.5	2,716.2	51.31	53.939			
5,700.0	5,071.9	5,324.5	5,067.9	43.2	28.4	27.72	189.5	1,394.4	2,767.5	2,716.0	51.47	53.767			
5,800.0	5,171.9	5,424.5	5,167.9	43.2	28.5	27.72	189.5	1,394.4	2,767.5	2,715.9	51.64	53.593			
5,900.0	5,271.9	5,524.5	5,267.9	43.2	28.6	27.72	189.5	1,394.4	2,767.5	2,715.7	51.81	53.417			
6,000.0	5,371.9	5,624.5	5,367.9	43.3	28.7	27.72	189.5	1,394.4	2,767.5	2,715.5	51.98	53.238			
6,100.0	5,471.9	5,724.5	5,467.9	43.3	28.7	27.72	189.5	1,394.4	2,767.5	2,715.4	52.16	53.057			
6,200.0	5,571.9	5,824.5	5,567.9	43.4	28.8	27.72	189.5	1,394.4	2,767.5	2,715.2	52.34	52.874			
6,300.0	5,671.9	5,924.5	5,667.9	43.4	28.9	27.72	189.5	1,394.4	2,767.5	2,715.0	52.53	52.689			
6,400.0	5,771.9	6,024.5	5,767.9	43.5	29.0	27.72	189.5	1,394.4	2,767.5	2,714.8	52.71	52.502			
6,500.0	5,871.9	6,124.5	5,867.9	43.5	29.1	27.72	189.5	1,394.4	2,767.5	2,714.6	52.90	52.314			
6,600.0	5,971.9	6,224.5	5,967.9	43.6	29.2	27.72	189.5	1,394.4	2,767.5	2,714.4	53.10	52.123			
6,700.0	6,071.9	6,324.5	6,067.9	43.6	29.3	27.72	189.5	1,394.4	2,767.5	2,714.2	53.29	51.932			
6,800.0	6,171.9	6,424.5	6,167.9	43.7	29.4	27.72	189.5	1,394.4	2,767.5	2,714.0	53.49	51.738			
6,865.1	6,237.0	6,489.6	6,233.0	43.7	29.5	27.72	189.5	1,394.4	2,767.5	2,713.9	53.62	51.611 SF			



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
B&V - B&V 23C-07-07-95 - Wellbore #1 - Design #1														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	40.02	87.8	73.7	114.7					
100.0	100.0	96.0	96.0	0.1	0.1	40.02	87.8	73.7	114.7	114.5	0.19	612.738		
200.0	200.0	196.0	196.0	0.3	0.3	40.02	87.8	73.7	114.7	114.0	0.63	181.554 CC, ES		
300.0	299.9	295.9	295.9	0.5	0.5	-138.23	87.8	73.7	116.9	115.9	1.07	109.023		
400.0	399.5	395.5	395.5	0.8	0.8	-140.89	87.8	73.7	123.9	122.4	1.53	80.883		
500.0	498.3	491.8	491.7	1.1	1.0	-143.69	87.4	75.9	137.0	134.9	2.02	67.879		
600.0	596.0	586.8	586.5	1.5	1.2	-145.39	86.3	82.7	157.1	154.6	2.55	61.572		
700.0	692.3	680.1	679.1	2.0	1.4	-146.10	84.3	93.9	184.0	180.8	3.15	58.373		
800.0	786.7	771.2	768.8	2.6	1.7	-146.08	81.7	109.2	217.3	213.5	3.84	56.663		
900.0	878.9	859.4	855.0	3.3	2.0	-145.55	78.5	127.9	256.8	252.2	4.61	55.685		
1,000.0	968.5	944.5	937.2	4.1	2.4	-144.67	74.7	149.7	302.3	296.8	5.49	55.082		
1,100.0	1,055.3	1,026.0	1,014.9	5.1	2.9	-143.54	70.5	173.9	353.3	346.8	6.46	54.698		
1,163.4	1,108.7	1,075.7	1,061.7	5.7	3.2	-142.72	67.7	190.3	388.3	381.2	7.12	54.512		
1,200.0	1,139.2	1,103.9	1,088.0	6.1	3.4	-142.73	66.0	200.1	409.3	401.7	7.51	54.469		
1,300.0	1,222.4	1,179.8	1,158.3	7.1	3.9	-142.45	61.2	228.5	467.1	458.5	8.65	54.006		
1,400.0	1,305.5	1,255.8	1,227.5	8.2	4.6	-141.86	55.8	259.5	526.0	516.2	9.86	53.337		
1,500.0	1,388.7	1,336.3	1,300.4	9.3	5.2	-141.25	50.0	293.0	585.3	574.1	11.14	52.520		
1,600.0	1,471.9	1,416.7	1,373.2	10.3	5.9	-140.76	44.2	326.6	644.5	632.1	12.44	51.799		
1,700.0	1,555.1	1,497.1	1,446.1	11.4	6.6	-140.35	38.5	360.2	703.8	690.1	13.75	51.175		
1,800.0	1,638.3	1,577.6	1,519.0	12.5	7.4	-140.00	32.7	393.8	763.2	748.1	15.08	50.622		
1,900.0	1,721.4	1,658.0	1,591.8	13.5	8.1	-139.71	26.9	427.3	822.5	806.1	16.41	50.135		
2,000.0	1,804.6	1,738.4	1,664.7	14.6	8.8	-139.45	21.1	460.9	881.8	864.1	17.74	49.706		
2,100.0	1,887.8	1,818.9	1,737.5	15.7	9.5	-139.23	15.3	494.5	941.2	922.1	19.08	49.326		
2,200.0	1,971.0	1,899.3	1,810.4	16.7	10.3	-139.03	9.5	528.1	1,000.5	980.1	20.42	48.988		
2,300.0	2,054.1	1,979.7	1,883.3	17.8	11.0	-138.85	3.8	561.6	1,059.9	1,038.1	21.77	48.683		
2,400.0	2,137.3	2,060.2	1,956.1	18.9	11.7	-138.70	-2.0	595.2	1,119.3	1,096.1	23.12	48.410		
2,500.0	2,220.5	2,140.6	2,029.0	20.0	12.4	-138.56	-7.8	628.8	1,178.6	1,154.2	24.47	48.163		
2,600.0	2,303.7	2,221.0	2,101.9	21.0	13.2	-138.43	-13.6	662.4	1,238.0	1,212.2	25.83	47.939		
2,700.0	2,386.9	2,301.4	2,174.7	22.1	13.9	-138.31	-19.4	695.9	1,297.4	1,270.2	27.18	47.734		
2,800.0	2,470.0	2,381.9	2,247.6	23.2	14.6	-138.21	-25.2	729.5	1,356.8	1,328.3	28.54	47.547		
2,900.0	2,553.2	2,462.3	2,320.4	24.3	15.4	-138.11	-30.9	763.1	1,416.2	1,386.3	29.89	47.375		
3,000.0	2,636.4	2,542.7	2,393.3	25.3	16.1	-138.02	-36.7	796.6	1,475.6	1,444.3	31.25	47.217		
3,100.0	2,719.6	2,623.2	2,466.2	26.4	16.8	-137.94	-42.5	830.2	1,535.0	1,502.4	32.61	47.070		
3,200.0	2,802.8	2,703.6	2,539.0	27.5	17.6	-137.86	-48.3	863.8	1,594.4	1,560.4	33.97	46.935		
3,300.0	2,885.9	2,784.0	2,611.9	28.5	18.3	-137.79	-54.1	897.4	1,653.8	1,618.4	35.33	46.809		
3,400.0	2,969.1	2,864.5	2,684.7	29.6	19.0	-137.73	-59.9	930.9	1,713.2	1,676.5	36.69	46.691		
3,500.0	3,052.3	2,944.9	2,757.6	30.7	19.8	-137.66	-65.6	964.5	1,772.6	1,734.5	38.05	46.582		
3,600.0	3,135.5	3,025.3	2,830.5	31.8	20.5	-137.61	-71.4	998.1	1,832.0	1,792.6	39.41	46.479		
3,700.0	3,218.6	3,105.8	2,903.3	32.8	21.2	-137.55	-77.2	1,031.7	1,891.4	1,850.6	40.78	46.383		
3,800.0	3,301.8	3,186.2	2,976.2	33.9	22.0	-137.50	-83.0	1,065.2	1,950.8	1,908.6	42.14	46.293		
3,900.0	3,385.0	3,266.6	3,049.0	35.0	22.7	-137.46	-88.8	1,098.8	2,010.2	1,966.7	43.50	46.207		
4,000.0	3,468.2	3,347.1	3,121.9	36.1	23.4	-137.41	-94.6	1,132.4	2,069.6	2,024.7	44.87	46.127		
4,100.0	3,551.4	3,427.5	3,194.8	37.1	24.2	-137.37	-100.4	1,165.9	2,129.0	2,082.8	46.23	46.051		
4,200.0	3,634.5	3,507.9	3,267.6	38.2	24.9	-137.33	-106.1	1,199.5	2,188.4	2,140.8	47.60	45.979		
4,247.8	3,674.3	3,546.4	3,302.4	38.7	25.3	-137.31	-108.9	1,215.6	2,216.8	2,168.6	48.25	45.946		
4,300.0	3,718.2	3,612.1	3,362.3	39.2	25.8	-138.15	-113.5	1,242.4	2,247.2	2,198.0	49.14	45.733		
4,400.0	3,804.6	3,770.8	3,510.2	39.9	26.8	-139.59	-123.2	1,298.8	2,300.5	2,249.8	50.72	45.356		
4,500.0	3,894.0	3,939.9	3,672.5	40.6	27.6	-140.91	-131.3	1,345.4	2,347.0	2,294.9	52.11	45.035		
4,600.0	3,985.9	4,117.7	3,847.0	41.1	28.2	-142.16	-137.0	1,379.0	2,385.9	2,332.7	53.23	44.820		
4,700.0	4,080.1	4,301.5	4,029.8	41.7	28.6	-143.38	-140.1	1,396.7	2,416.9	2,362.9	54.01	44.748		
4,800.0	4,176.2	4,443.9	4,172.2	42.1	28.7	-144.39	-140.5	1,399.0	2,440.2	2,385.7	54.47	44.796		

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 23C-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,541.4	4,269.7	42.4	28.8	-145.06	-140.5	1,399.0	2,458.2	2,403.4	54.81	44.847			
5,000.0	4,372.4	4,640.2	4,368.4	42.7	28.8	-145.53	-140.5	1,399.0	2,471.3	2,416.3	55.04	44.899			
5,100.0	4,471.9	4,739.7	4,467.9	42.9	28.9	-145.82	-140.5	1,399.0	2,479.4	2,424.3	55.16	44.950			
5,200.0	4,571.9	4,839.6	4,567.9	42.9	29.0	-145.93	-140.5	1,399.0	2,482.5	2,427.4	55.17	44.996			
5,211.1	4,583.0	4,850.7	4,579.0	43.0	29.0	31.36	-140.5	1,399.0	2,482.6	2,427.4	55.17	45.000			
5,300.0	4,671.9	4,939.6	4,667.9	43.0	29.0	31.36	-140.5	1,399.0	2,482.6	2,427.3	55.30	44.896			
5,400.0	4,771.9	5,039.6	4,767.9	43.0	29.1	31.36	-140.5	1,399.0	2,482.6	2,427.1	55.44	44.783			
5,500.0	4,871.9	5,139.6	4,867.9	43.1	29.2	31.36	-140.5	1,399.0	2,482.6	2,427.0	55.58	44.668			
5,600.0	4,971.9	5,239.6	4,967.9	43.1	29.3	31.36	-140.5	1,399.0	2,482.6	2,426.8	55.73	44.550			
5,700.0	5,071.9	5,339.6	5,067.9	43.2	29.4	31.36	-140.5	1,399.0	2,482.6	2,426.7	55.87	44.431			
5,800.0	5,171.9	5,439.6	5,167.9	43.2	29.4	31.36	-140.5	1,399.0	2,482.6	2,426.5	56.03	44.310			
5,900.0	5,271.9	5,539.6	5,267.9	43.2	29.5	31.36	-140.5	1,399.0	2,482.6	2,426.4	56.18	44.187			
6,000.0	5,371.9	5,639.6	5,367.9	43.3	29.6	31.36	-140.5	1,399.0	2,482.6	2,426.2	56.34	44.062			
6,100.0	5,471.9	5,739.6	5,467.9	43.3	29.7	31.36	-140.5	1,399.0	2,482.6	2,426.1	56.51	43.935			
6,200.0	5,571.9	5,839.6	5,567.9	43.4	29.8	31.36	-140.5	1,399.0	2,482.6	2,425.9	56.67	43.807			
6,300.0	5,671.9	5,939.6	5,667.9	43.4	29.9	31.36	-140.5	1,399.0	2,482.6	2,425.7	56.84	43.677			
6,400.0	5,771.9	6,039.6	5,767.9	43.5	30.0	31.36	-140.5	1,399.0	2,482.6	2,425.6	57.01	43.546			
6,500.0	5,871.9	6,139.6	5,867.9	43.5	30.1	31.36	-140.5	1,399.0	2,482.6	2,425.4	57.19	43.413			
6,600.0	5,971.9	6,239.6	5,967.9	43.6	30.1	31.36	-140.5	1,399.0	2,482.6	2,425.2	57.36	43.278			
6,700.0	6,071.9	6,339.6	6,067.9	43.6	30.2	31.36	-140.5	1,399.0	2,482.6	2,425.0	57.54	43.143			
6,800.0	6,171.9	6,439.6	6,167.9	43.7	30.3	31.36	-140.5	1,399.0	2,482.6	2,424.8	57.73	43.006			
6,865.1	6,237.0	6,504.7	6,233.0	43.7	30.4	31.36	-140.5	1,399.0	2,482.6	2,424.7	57.85	42.916 SF			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													B&V - B&V 23D-07-07-95 - Wellbore #1 - Design #1		Offset Site Error: 0.0 usft	
Survey Program: 0-MWD														Offset Well Error: 0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	36.91	72.2	54.2	90.4							
100.0	100.0	96.0	96.0	0.1	0.1	36.91	72.2	54.2	90.3	90.1	0.19	482.518				
200.0	200.0	196.0	196.0	0.3	0.3	36.91	72.2	54.2	90.3	89.7	0.63	142.970	CC, ES			
300.0	299.9	295.9	295.9	0.5	0.5	-141.53	72.2	54.2	92.7	91.6	1.07	86.295				
400.0	399.5	395.5	395.5	0.8	0.8	-144.64	72.2	54.2	100.0	98.5	1.53	65.191				
500.0	498.3	494.3	494.3	1.1	1.0	-148.87	72.2	54.2	112.8	110.8	2.03	55.684				
600.0	596.0	592.0	592.0	1.5	1.2	-153.34	72.2	54.2	131.5	128.9	2.54	51.852				
700.0	692.3	688.6	688.5	2.0	1.4	-156.67	71.4	56.1	156.2	153.2	3.04	51.316				
800.0	786.7	784.2	783.9	2.6	1.6	-158.12	68.9	62.5	186.5	183.0	3.57	52.213				
900.0	878.9	878.5	877.5	3.3	1.8	-158.28	64.6	73.0	221.9	217.8	4.16	53.398				
1,000.0	968.5	970.9	968.6	4.1	2.1	-157.64	58.8	87.5	262.3	257.4	4.82	54.372				
1,100.0	1,055.3	1,061.2	1,056.7	5.1	2.4	-156.49	51.5	105.6	307.3	301.7	5.59	54.981				
1,163.4	1,108.7	1,117.0	1,110.8	5.7	2.7	-155.58	46.2	118.8	338.3	332.2	6.13	55.199				
1,200.0	1,139.2	1,149.1	1,141.5	6.1	2.8	-155.30	43.0	127.0	356.8	350.3	6.47	55.147				
1,300.0	1,222.4	1,236.3	1,224.6	7.1	3.3	-154.23	33.0	151.7	407.0	399.5	7.47	54.448				
1,400.0	1,305.5	1,323.0	1,305.9	8.2	3.8	-152.83	21.7	179.7	457.1	448.5	8.61	53.101				
1,500.0	1,388.7	1,408.9	1,384.9	9.3	4.4	-151.21	9.2	210.8	507.4	497.6	9.87	51.407				
1,600.0	1,471.9	1,493.6	1,461.4	10.3	5.1	-149.45	-4.4	244.7	558.1	546.8	11.26	49.551				
1,700.0	1,555.1	1,576.8	1,534.8	11.4	5.9	-147.61	-19.0	281.0	609.3	596.5	12.79	47.652				
1,800.0	1,638.3	1,659.6	1,606.3	12.5	6.8	-145.74	-34.5	319.6	661.1	646.8	14.38	45.966				
1,900.0	1,721.4	1,743.0	1,678.2	13.5	7.7	-144.08	-50.3	358.9	713.5	697.5	16.04	44.487				
2,000.0	1,804.6	1,826.4	1,750.1	14.6	8.5	-142.64	-66.1	398.1	766.3	748.6	17.70	43.285				
2,100.0	1,887.8	1,909.8	1,822.0	15.7	9.5	-141.38	-81.9	437.4	819.3	800.0	19.37	42.291				
2,200.0	1,971.0	1,993.2	1,893.9	16.7	10.4	-140.27	-97.7	476.6	872.7	851.6	21.05	41.456				
2,300.0	2,054.1	2,076.7	1,965.8	17.8	11.3	-139.28	-113.5	515.9	926.2	903.5	22.73	40.749				
2,400.0	2,137.3	2,160.1	2,037.7	18.9	12.2	-138.40	-129.2	555.1	979.9	955.5	24.41	40.144				
2,500.0	2,220.5	2,243.5	2,109.5	20.0	13.1	-137.61	-145.0	594.4	1,033.8	1,007.7	26.09	39.622				
2,600.0	2,303.7	2,326.9	2,181.4	21.0	14.1	-136.90	-160.8	633.6	1,087.8	1,060.1	27.77	39.168				
2,700.0	2,386.9	2,410.3	2,253.3	22.1	15.0	-136.25	-176.6	672.9	1,141.9	1,112.5	29.45	38.769				
2,800.0	2,470.0	2,493.7	2,325.2	23.2	15.9	-135.66	-192.4	712.1	1,196.1	1,165.0	31.14	38.417				
2,900.0	2,553.2	2,577.1	2,397.1	24.3	16.8	-135.13	-208.2	751.4	1,250.4	1,217.6	32.82	38.104				
3,000.0	2,636.4	2,660.6	2,469.0	25.3	17.8	-134.63	-224.0	790.6	1,304.8	1,270.3	34.50	37.824				
3,100.0	2,719.6	2,744.0	2,540.9	26.4	18.7	-134.18	-239.7	829.9	1,359.2	1,323.1	36.18	37.573				
3,200.0	2,802.8	2,827.4	2,612.8	27.5	19.7	-133.76	-255.5	869.1	1,413.7	1,375.9	37.85	37.346				
3,300.0	2,885.9	2,910.8	2,684.7	28.5	20.6	-133.37	-271.3	908.4	1,468.3	1,428.7	39.53	37.140				
3,400.0	2,969.1	2,994.2	2,756.6	29.6	21.5	-133.00	-287.1	947.6	1,522.8	1,481.6	41.21	36.953				
3,500.0	3,052.3	3,077.6	2,828.4	30.7	22.5	-132.67	-302.9	986.9	1,577.4	1,534.6	42.89	36.781				
3,600.0	3,135.5	3,161.1	2,900.3	31.8	23.4	-132.35	-318.7	1,026.1	1,632.1	1,587.5	44.56	36.624				
3,700.0	3,218.6	3,244.5	2,972.2	32.8	24.3	-132.06	-334.5	1,065.4	1,686.8	1,640.5	46.24	36.479				
3,800.0	3,301.8	3,327.9	3,044.1	33.9	25.3	-131.78	-350.2	1,104.6	1,741.5	1,693.6	47.92	36.345				
3,900.0	3,385.0	3,411.3	3,116.0	35.0	26.2	-131.52	-366.0	1,143.9	1,796.3	1,746.7	49.59	36.221				
4,000.0	3,468.2	3,515.3	3,206.3	36.1	27.3	-131.27	-385.3	1,191.7	1,850.7	1,799.4	51.37	36.030				
4,100.0	3,551.4	3,634.5	3,313.0	37.1	28.2	-131.22	-405.1	1,241.1	1,903.8	1,850.8	53.03	35.901				
4,200.0	3,634.5	3,756.2	3,425.0	38.2	29.1	-131.43	-422.8	1,285.0	1,955.3	1,900.8	54.54	35.847				
4,247.8	3,674.3	3,815.0	3,480.2	38.7	29.5	-131.61	-430.4	1,303.9	1,979.3	1,924.1	55.22	35.847				
4,300.0	3,718.2	3,879.9	3,541.8	39.2	29.8	-132.60	-438.0	1,322.8	2,004.7	1,948.7	55.99	35.804				
4,400.0	3,804.6	4,007.5	3,664.8	39.9	30.4	-134.33	-450.7	1,354.4	2,049.3	1,992.0	57.26	35.792				
4,500.0	3,894.0	4,138.6	3,793.2	40.6	30.9	-135.88	-460.5	1,378.8	2,088.3	2,030.0	58.32	35.809				
4,600.0	3,985.9	4,272.4	3,925.8	41.1	31.2	-137.29	-467.1	1,395.2	2,121.5	2,062.4	59.16	35.858				
4,700.0	4,080.1	4,407.8	4,060.9	41.7	31.4	-138.58	-470.2	1,403.0	2,148.8	2,089.0	59.77	35.953				
4,800.0	4,176.2	4,519.1	4,172.2	42.1	31.5	-139.62	-470.5	1,403.6	2,170.3	2,110.1	60.16	36.073				

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 23D-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,616.6	4,269.7	42.4	31.5	-140.38	-470.5	1,403.6	2,187.2	2,126.8	60.47	36.173			
5,000.0	4,372.4	4,715.3	4,368.4	42.7	31.6	-140.91	-470.5	1,403.6	2,199.6	2,138.9	60.67	36.256			
5,100.0	4,471.9	4,814.8	4,467.9	42.9	31.7	-141.24	-470.5	1,403.6	2,207.2	2,146.5	60.78	36.318			
5,200.0	4,571.9	4,914.8	4,567.9	42.9	31.7	-141.37	-470.5	1,403.6	2,210.2	2,149.4	60.79	36.356			
5,211.1	4,583.0	4,925.9	4,579.0	43.0	31.7	35.92	-470.5	1,403.6	2,210.2	2,149.4	60.79	36.359			
5,300.0	4,671.9	5,014.8	4,667.9	43.0	31.8	35.92	-470.5	1,403.6	2,210.2	2,149.3	60.90	36.290			
5,400.0	4,771.9	5,114.8	4,767.9	43.0	31.9	35.92	-470.5	1,403.6	2,210.2	2,149.2	61.03	36.215			
5,500.0	4,871.9	5,214.8	4,867.9	43.1	31.9	35.92	-470.5	1,403.6	2,210.2	2,149.0	61.16	36.138			
5,600.0	4,971.9	5,314.8	4,967.9	43.1	32.0	35.92	-470.5	1,403.6	2,210.2	2,148.9	61.29	36.061			
5,700.0	5,071.9	5,414.8	5,067.9	43.2	32.1	35.92	-470.5	1,403.6	2,210.2	2,148.8	61.43	35.981			
5,800.0	5,171.9	5,514.8	5,167.9	43.2	32.2	35.92	-470.5	1,403.6	2,210.2	2,148.6	61.56	35.901			
5,900.0	5,271.9	5,614.8	5,267.9	43.2	32.2	35.92	-470.5	1,403.6	2,210.2	2,148.5	61.70	35.819			
6,000.0	5,371.9	5,714.8	5,367.9	43.3	32.3	35.92	-470.5	1,403.6	2,210.2	2,148.3	61.85	35.735			
6,100.0	5,471.9	5,814.8	5,467.9	43.3	32.4	35.92	-470.5	1,403.6	2,210.2	2,148.2	62.00	35.651			
6,200.0	5,571.9	5,914.8	5,567.9	43.4	32.5	35.92	-470.5	1,403.6	2,210.2	2,148.0	62.15	35.565			
6,300.0	5,671.9	6,014.8	5,667.9	43.4	32.5	35.92	-470.5	1,403.6	2,210.2	2,147.9	62.30	35.478			
6,400.0	5,771.9	6,114.8	5,767.9	43.5	32.6	35.92	-470.5	1,403.6	2,210.2	2,147.7	62.45	35.390			
6,500.0	5,871.9	6,214.8	5,867.9	43.5	32.7	35.92	-470.5	1,403.6	2,210.2	2,147.6	62.61	35.300			
6,600.0	5,971.9	6,314.8	5,967.9	43.6	32.8	35.92	-470.5	1,403.6	2,210.2	2,147.4	62.77	35.209			
6,700.0	6,071.9	6,414.8	6,067.9	43.6	32.9	35.92	-470.5	1,403.6	2,210.2	2,147.3	62.94	35.118			
6,800.0	6,171.9	6,514.8	6,167.9	43.7	33.0	35.92	-470.5	1,403.6	2,210.2	2,147.1	63.10	35.025			
6,865.1	6,237.0	6,579.9	6,233.0	43.7	33.0	35.92	-470.5	1,403.6	2,210.2	2,147.0	63.21	34.964 SF			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
B&V - B&V 24A-07-07-95 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	31.53	56.6	34.7	66.5						
100.0	100.0	96.0	96.0	0.1	0.1	31.53	56.6	34.7	66.4	66.2	0.19	354.780			
200.0	200.0	196.0	196.0	0.3	0.3	31.53	56.6	34.7	66.4	65.8	0.63	105.124	CC, ES		
300.0	299.9	295.9	295.9	0.5	0.5	-147.14	56.6	34.7	68.9	67.9	1.08	64.064			
400.0	399.5	395.5	395.5	0.8	0.8	-150.71	56.6	34.7	76.8	75.3	1.54	49.960			
500.0	498.3	494.3	494.3	1.1	1.0	-155.22	56.6	34.7	90.4	88.4	2.02	44.684			
600.0	596.0	592.0	592.0	1.5	1.2	-159.60	56.6	34.7	110.0	107.5	2.52	43.663			
700.0	692.3	688.3	688.3	2.0	1.4	-163.31	56.6	34.7	135.9	132.9	3.02	44.963			
800.0	786.7	782.6	782.6	2.6	1.6	-166.26	56.6	34.7	167.8	164.3	3.53	47.609			
900.0	878.9	878.9	878.8	3.3	1.8	-168.10	55.6	36.3	205.0	200.9	4.02	50.969			
1,000.0	968.5	975.6	975.3	4.1	2.0	-168.31	51.6	42.7	245.6	241.0	4.53	54.252			
1,100.0	1,055.3	1,071.9	1,070.6	5.1	2.3	-167.48	44.7	53.8	289.4	284.3	5.09	56.906			
1,163.4	1,108.7	1,132.4	1,130.1	5.7	2.4	-166.60	38.8	63.3	318.9	313.4	5.49	58.129			
1,200.0	1,139.2	1,167.4	1,164.3	6.1	2.5	-166.15	34.9	69.6	336.1	330.4	5.75	58.493			
1,300.0	1,222.4	1,263.9	1,257.7	7.1	2.9	-164.52	22.0	90.1	382.1	375.5	6.56	58.268			
1,400.0	1,305.5	1,361.2	1,350.3	8.2	3.4	-162.45	6.2	115.5	426.3	418.8	7.53	56.585			
1,500.0	1,388.7	1,458.8	1,441.2	9.3	4.0	-160.07	-12.6	145.7	469.2	460.5	8.71	53.887			
1,600.0	1,471.9	1,556.0	1,529.4	10.3	4.7	-157.44	-34.2	180.2	511.2	501.1	10.09	50.638			
1,700.0	1,555.1	1,652.0	1,614.0	11.4	5.6	-154.64	-58.2	218.6	552.6	540.9	11.70	47.207			
1,800.0	1,638.3	1,746.3	1,694.4	12.5	6.5	-151.73	-84.2	260.4	593.8	580.3	13.50	43.981			
1,900.0	1,721.4	1,837.6	1,769.5	13.5	7.6	-148.79	-111.7	304.4	635.4	619.9	15.47	41.068			
2,000.0	1,804.6	1,923.4	1,839.1	14.6	8.6	-146.19	-138.4	347.2	678.0	660.5	17.48	38.795			
2,100.0	1,887.8	2,009.3	1,908.6	15.7	9.7	-143.87	-165.1	389.9	721.7	702.2	19.50	37.001			
2,200.0	1,971.0	2,095.2	1,978.2	16.7	10.8	-141.79	-191.7	432.7	766.3	744.8	21.55	35.565			
2,300.0	2,054.1	2,181.1	2,047.7	17.8	11.9	-139.93	-218.4	475.4	811.8	788.2	23.60	34.401			
2,400.0	2,137.3	2,267.0	2,117.3	18.9	13.0	-138.26	-245.1	518.2	857.8	832.2	25.65	33.448			
2,500.0	2,220.5	2,352.9	2,186.8	20.0	14.2	-136.75	-271.8	560.9	904.5	876.8	27.70	32.658			
2,600.0	2,303.7	2,438.8	2,256.4	21.0	15.3	-135.37	-298.4	603.7	951.6	921.8	29.74	31.997			
2,700.0	2,386.9	2,524.7	2,325.9	22.1	16.4	-134.13	-325.1	646.4	999.1	967.3	31.78	31.439			
2,800.0	2,470.0	2,610.5	2,395.5	23.2	17.5	-132.99	-351.8	689.2	1,046.9	1,013.1	33.81	30.964			
2,900.0	2,553.2	2,696.4	2,465.0	24.3	18.7	-131.94	-378.5	731.9	1,095.1	1,059.3	35.84	30.556			
3,000.0	2,636.4	2,782.3	2,534.6	25.3	19.8	-130.99	-405.1	774.7	1,143.5	1,105.7	37.86	30.203			
3,100.0	2,719.6	2,868.2	2,604.1	26.4	20.9	-130.10	-431.8	817.4	1,192.2	1,152.3	39.88	29.896			
3,200.0	2,802.8	2,954.1	2,673.7	27.5	22.1	-129.29	-458.5	860.2	1,241.1	1,199.2	41.89	29.628			
3,300.0	2,885.9	3,040.0	2,743.2	28.5	23.2	-128.53	-485.2	902.9	1,290.1	1,246.2	43.89	29.391			
3,400.0	2,969.1	3,125.9	2,812.8	29.6	24.3	-127.83	-511.8	945.7	1,339.3	1,293.4	45.90	29.182			
3,500.0	3,052.3	3,211.7	2,882.3	30.7	25.5	-127.18	-538.5	988.4	1,388.7	1,340.8	47.89	28.996			
3,600.0	3,135.5	3,297.6	2,951.9	31.8	26.6	-126.57	-565.2	1,031.2	1,438.2	1,388.3	49.88	28.830			
3,700.0	3,218.6	3,383.5	3,021.4	32.8	27.7	-126.00	-591.9	1,073.9	1,487.8	1,435.9	51.87	28.681			
3,800.0	3,301.8	3,469.4	3,091.0	33.9	28.9	-125.47	-618.5	1,116.7	1,537.5	1,483.6	53.86	28.547			
3,900.0	3,385.0	3,564.5	3,168.2	35.0	30.1	-124.93	-647.9	1,163.7	1,587.2	1,531.3	55.90	28.393			
4,000.0	3,468.2	3,678.3	3,264.2	36.1	31.3	-124.58	-680.3	1,215.6	1,635.9	1,578.0	57.91	28.248			
4,100.0	3,551.4	3,795.0	3,366.7	37.1	32.3	-124.55	-709.7	1,262.8	1,683.1	1,623.3	59.74	28.174			
4,200.0	3,634.5	3,913.3	3,474.5	38.2	33.2	-124.82	-735.6	1,304.3	1,728.7	1,667.3	61.37	28.166			
4,247.8	3,674.3	3,970.1	3,527.4	38.7	33.6	-125.06	-746.5	1,321.8	1,750.0	1,687.9	62.09	28.187			
4,300.0	3,718.2	4,032.5	3,586.3	39.2	34.0	-126.06	-757.4	1,339.2	1,772.5	1,709.6	62.90	28.180			
4,400.0	3,804.6	4,153.8	3,702.9	39.9	34.5	-127.85	-775.1	1,367.6	1,811.8	1,747.6	64.18	28.229			
4,500.0	3,894.0	4,276.9	3,823.3	40.6	35.0	-129.50	-788.4	1,388.8	1,846.3	1,781.0	65.25	28.297			
4,600.0	3,985.9	4,400.9	3,946.3	41.1	35.3	-131.03	-796.8	1,402.4	1,875.7	1,809.6	66.06	28.392			
4,700.0	4,080.1	4,525.0	4,070.2	41.7	35.4	-132.46	-800.4	1,408.1	1,899.9	1,833.3	66.61	28.523			
4,800.0	4,176.2	4,627.0	4,172.2	42.1	35.5	-133.59	-800.5	1,408.2	1,919.3	1,852.3	66.98	28.654			

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 24A-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,724.6	4,269.7	42.4	35.5	-134.45	-800.5	1,408.2	1,934.7	1,867.4	67.27	28.762			
5,000.0	4,372.4	4,823.3	4,368.4	42.7	35.6	-135.06	-800.5	1,408.2	1,946.0	1,878.5	67.46	28.846			
5,100.0	4,471.9	4,922.8	4,467.9	42.9	35.6	-135.43	-800.5	1,408.2	1,953.0	1,885.4	67.57	28.902			
5,200.0	4,571.9	5,022.7	4,567.8	42.9	35.7	-135.58	-800.5	1,408.2	1,955.6	1,888.0	67.60	28.928			
5,211.1	4,583.0	5,033.8	4,579.0	43.0	35.7	41.71	-800.5	1,408.2	1,955.7	1,888.0	67.60	28.929			
5,300.0	4,671.9	5,122.7	4,667.8	43.0	35.8	41.71	-800.5	1,408.2	1,955.7	1,887.9	67.71	28.884			
5,400.0	4,771.9	5,222.7	4,767.8	43.0	35.8	41.71	-800.5	1,408.2	1,955.7	1,887.8	67.82	28.836			
5,500.0	4,871.9	5,322.7	4,867.8	43.1	35.9	41.71	-800.5	1,408.2	1,955.7	1,887.7	67.93	28.788			
5,600.0	4,971.9	5,422.7	4,967.8	43.1	35.9	41.71	-800.5	1,408.2	1,955.7	1,887.6	68.05	28.738			
5,700.0	5,071.9	5,522.7	5,067.8	43.2	36.0	41.71	-800.5	1,408.2	1,955.7	1,887.5	68.17	28.687			
5,800.0	5,171.9	5,622.7	5,167.8	43.2	36.1	41.71	-800.5	1,408.2	1,955.7	1,887.4	68.30	28.635			
5,900.0	5,271.9	5,722.7	5,267.8	43.2	36.1	41.71	-800.5	1,408.2	1,955.7	1,887.2	68.42	28.582			
6,000.0	5,371.9	5,822.7	5,367.8	43.3	36.2	41.71	-800.5	1,408.2	1,955.7	1,887.1	68.55	28.528			
6,100.0	5,471.9	5,922.7	5,467.8	43.3	36.3	41.71	-800.5	1,408.2	1,955.7	1,887.0	68.68	28.474			
6,200.0	5,571.9	6,022.7	5,567.8	43.4	36.3	41.71	-800.5	1,408.2	1,955.7	1,886.8	68.82	28.418			
6,300.0	5,671.9	6,122.7	5,667.8	43.4	36.4	41.71	-800.5	1,408.2	1,955.7	1,886.7	68.95	28.362			
6,400.0	5,771.9	6,222.7	5,767.8	43.5	36.5	41.71	-800.5	1,408.2	1,955.7	1,886.6	69.09	28.304			
6,500.0	5,871.9	6,322.7	5,867.8	43.5	36.6	41.71	-800.5	1,408.2	1,955.7	1,886.4	69.24	28.246			
6,600.0	5,971.9	6,422.7	5,967.8	43.6	36.6	41.71	-800.5	1,408.2	1,955.7	1,886.3	69.38	28.187			
6,700.0	6,071.9	6,522.7	6,067.8	43.6	36.7	41.71	-800.5	1,408.2	1,955.7	1,886.1	69.53	28.127			
6,800.0	6,171.9	6,622.7	6,167.8	43.7	36.8	41.71	-800.5	1,408.2	1,955.7	1,886.0	69.68	28.067			
6,865.1	6,237.0	6,687.8	6,233.0	43.7	36.8	41.71	-800.5	1,408.2	1,955.7	1,885.9	69.78	28.027 SF			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													B&V - B&V 24B-07-07-95 - Wellbore #1 - Design #1		Offset Site Error: 0.0 usft	
Survey Program: 0-MWD															Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	20.37	41.0	15.2	43.9							
100.0	100.0	96.0	96.0	0.1	0.1	20.37	41.0	15.2	43.7	43.5	0.19	233.549				
200.0	200.0	196.0	196.0	0.3	0.3	20.37	41.0	15.2	43.7	43.1	0.63	69.202 CC, ES				
300.0	299.9	295.9	295.9	0.5	0.5	-158.36	41.0	15.2	46.5	45.5	1.08	43.089				
400.0	399.5	395.5	395.5	0.8	0.8	-161.77	41.0	15.2	55.1	53.6	1.54	35.771				
500.0	498.3	496.2	496.1	1.1	1.0	-163.52	39.2	17.4	68.5	66.5	2.00	34.295				
600.0	596.0	596.8	596.3	1.5	1.2	-162.00	33.4	24.3	85.0	82.5	2.47	34.426				
700.0	692.3	697.1	695.4	2.0	1.5	-158.85	23.7	35.8	104.7	101.7	3.03	34.561				
800.0	786.7	796.5	792.7	2.6	1.8	-155.06	10.3	51.8	128.1	124.4	3.74	34.273				
900.0	878.9	894.9	887.4	3.3	2.3	-151.14	-6.7	72.1	155.4	150.8	4.63	33.538				
1,000.0	968.5	992.0	979.2	4.1	2.9	-147.35	-27.0	96.4	186.7	180.9	5.74	32.542				
1,100.0	1,055.3	1,087.4	1,067.4	5.1	3.6	-143.78	-50.4	124.2	222.0	215.0	7.05	31.493				
1,163.4	1,108.7	1,147.0	1,121.3	5.7	4.1	-141.65	-66.6	143.6	246.5	238.5	7.99	30.840				
1,200.0	1,139.2	1,181.2	1,151.9	6.1	4.4	-140.76	-76.5	155.4	261.1	252.5	8.57	30.461				
1,300.0	1,222.4	1,274.0	1,233.1	7.1	5.3	-138.03	-105.4	189.8	300.8	290.5	10.30	29.193				
1,400.0	1,305.5	1,365.1	1,310.8	8.2	6.2	-135.29	-135.8	226.1	340.7	328.5	12.16	28.012				
1,500.0	1,388.7	1,455.6	1,388.1	9.3	7.2	-133.10	-166.2	262.4	381.1	367.0	14.05	27.120				
1,600.0	1,471.9	1,546.2	1,465.3	10.3	8.2	-131.32	-196.6	298.7	421.8	405.9	15.95	26.448				
1,700.0	1,555.1	1,636.8	1,542.5	11.4	9.2	-129.85	-227.0	334.9	462.9	445.1	17.85	25.926				
1,800.0	1,638.3	1,727.4	1,619.8	12.5	10.3	-128.62	-257.4	371.2	504.2	484.4	19.76	25.512				
1,900.0	1,721.4	1,818.0	1,697.0	13.5	11.3	-127.58	-287.8	407.5	545.6	524.0	21.67	25.177				
2,000.0	1,804.6	1,908.6	1,774.3	14.6	12.3	-126.68	-318.2	443.7	587.2	563.6	23.58	24.901				
2,100.0	1,887.8	1,999.1	1,851.5	15.7	13.3	-125.90	-348.6	480.0	628.9	603.4	25.49	24.670				
2,200.0	1,971.0	2,089.7	1,928.8	16.7	14.4	-125.21	-379.0	516.3	670.7	643.3	27.40	24.474				
2,300.0	2,054.1	2,180.3	2,006.0	17.8	15.4	-124.61	-409.4	552.5	712.5	683.2	29.31	24.306				
2,400.0	2,137.3	2,270.9	2,083.2	18.9	16.4	-124.07	-439.8	588.8	754.4	723.2	31.22	24.161				
2,500.0	2,220.5	2,361.5	2,160.5	20.0	17.4	-123.59	-470.2	625.1	796.4	763.2	33.13	24.034				
2,600.0	2,303.7	2,452.1	2,237.7	21.0	18.5	-123.16	-500.6	661.3	838.3	803.3	35.04	23.923				
2,700.0	2,386.9	2,542.7	2,315.0	22.1	19.5	-122.76	-531.0	697.6	880.4	843.4	36.95	23.824				
2,800.0	2,470.0	2,633.2	2,392.2	23.2	20.5	-122.41	-561.3	733.9	922.4	883.6	38.86	23.736				
2,900.0	2,553.2	2,723.8	2,469.5	24.3	21.6	-122.08	-591.7	770.1	964.5	923.7	40.77	23.657				
3,000.0	2,636.4	2,814.4	2,546.7	25.3	22.6	-121.78	-622.1	806.4	1,006.6	963.9	42.68	23.586				
3,100.0	2,719.6	2,905.0	2,623.9	26.4	23.6	-121.51	-652.5	842.7	1,048.7	1,004.1	44.59	23.522				
3,200.0	2,802.8	2,995.6	2,701.2	27.5	24.7	-121.26	-682.9	878.9	1,090.9	1,044.4	46.49	23.463				
3,300.0	2,885.9	3,086.2	2,778.4	28.5	25.7	-121.02	-713.3	915.2	1,133.0	1,084.6	48.40	23.409				
3,400.0	2,969.1	3,176.7	2,855.7	29.6	26.7	-120.80	-743.7	951.5	1,175.2	1,124.9	50.31	23.360				
3,500.0	3,052.3	3,267.3	2,932.9	30.7	27.8	-120.60	-774.1	987.7	1,217.4	1,165.2	52.21	23.315				
3,600.0	3,135.5	3,357.9	3,010.2	31.8	28.8	-120.41	-804.5	1,024.0	1,259.6	1,205.5	54.12	23.273				
3,700.0	3,218.6	3,448.5	3,087.4	32.8	29.8	-120.24	-834.9	1,060.2	1,301.8	1,245.8	56.03	23.235				
3,800.0	3,301.8	3,539.1	3,164.6	33.9	30.9	-120.07	-865.3	1,096.5	1,344.0	1,286.1	57.93	23.199				
3,900.0	3,385.0	3,629.7	3,241.9	35.0	31.9	-119.91	-895.7	1,132.8	1,386.3	1,326.4	59.84	23.165				
4,000.0	3,468.2	3,720.2	3,319.1	36.1	32.9	-119.77	-926.1	1,169.0	1,428.5	1,366.7	61.75	23.134				
4,100.0	3,551.4	3,810.8	3,396.4	37.1	34.0	-119.63	-956.5	1,205.3	1,470.7	1,407.1	63.65	23.105				
4,200.0	3,634.5	3,909.0	3,480.3	38.2	35.0	-119.51	-989.1	1,244.3	1,512.9	1,447.3	65.58	23.070				
4,247.8	3,674.3	3,962.3	3,526.9	38.7	35.5	-119.53	-1,005.8	1,264.1	1,532.7	1,466.3	66.44	23.069				
4,300.0	3,718.2	4,021.0	3,579.2	39.2	36.0	-120.28	-1,023.0	1,284.7	1,553.7	1,486.3	67.40	23.053				
4,400.0	3,804.6	4,135.5	3,683.6	39.9	36.8	-121.62	-1,053.1	1,320.5	1,590.7	1,521.8	68.97	23.065				
4,500.0	3,894.0	4,252.1	3,793.1	40.6	37.5	-122.85	-1,078.8	1,351.2	1,623.5	1,553.1	70.35	23.079				
4,600.0	3,985.9	4,370.4	3,906.8	41.1	38.0	-123.98	-1,099.7	1,376.1	1,651.8	1,580.3	71.51	23.099				
4,700.0	4,080.1	4,490.0	4,023.9	41.7	38.4	-125.01	-1,115.4	1,394.9	1,675.5	1,603.0	72.43	23.131				
4,800.0	4,176.2	4,610.3	4,143.0	42.1	38.7	-125.97	-1,125.6	1,407.1	1,694.5	1,621.4	73.10	23.180				

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 24B-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,730.5	4,263.1	42.4	38.9	-126.86	-1,130.2	1,412.5	1,708.7	1,635.2	73.51	23.245			
5,000.0	4,372.4	4,835.9	4,368.4	42.7	38.9	-127.57	-1,130.5	1,412.9	1,718.5	1,644.8	73.73	23.309			
5,100.0	4,471.9	4,935.4	4,467.9	42.9	39.0	-128.00	-1,130.5	1,412.9	1,724.5	1,650.7	73.86	23.350			
5,200.0	4,571.9	5,035.3	4,567.8	42.9	39.0	-128.16	-1,130.5	1,412.9	1,726.8	1,652.9	73.91	23.362			
5,211.1	4,583.0	5,046.5	4,579.0	43.0	39.0	49.13	-1,130.5	1,412.9	1,726.8	1,652.9	73.92	23.362			
5,300.0	4,671.9	5,135.3	4,667.8	43.0	39.1	49.13	-1,130.5	1,412.9	1,726.8	1,652.8	74.01	23.332			
5,400.0	4,771.9	5,235.3	4,767.8	43.0	39.1	49.13	-1,130.5	1,412.9	1,726.8	1,652.7	74.11	23.301			
5,500.0	4,871.9	5,335.3	4,867.8	43.1	39.2	49.13	-1,130.5	1,412.9	1,726.8	1,652.6	74.21	23.269			
5,600.0	4,971.9	5,435.3	4,967.8	43.1	39.2	49.13	-1,130.5	1,412.9	1,726.8	1,652.5	74.32	23.236			
5,700.0	5,071.9	5,535.3	5,067.8	43.2	39.3	49.13	-1,130.5	1,412.9	1,726.8	1,652.4	74.43	23.202			
5,800.0	5,171.9	5,635.3	5,167.8	43.2	39.3	49.13	-1,130.5	1,412.9	1,726.8	1,652.3	74.54	23.168			
5,900.0	5,271.9	5,735.3	5,267.8	43.2	39.4	49.13	-1,130.5	1,412.9	1,726.8	1,652.2	74.65	23.133			
6,000.0	5,371.9	5,835.3	5,367.8	43.3	39.5	49.13	-1,130.5	1,412.9	1,726.8	1,652.1	74.76	23.097			
6,100.0	5,471.9	5,935.3	5,467.8	43.3	39.5	49.13	-1,130.5	1,412.9	1,726.8	1,652.0	74.88	23.061			
6,200.0	5,571.9	6,035.3	5,567.8	43.4	39.6	49.13	-1,130.5	1,412.9	1,726.8	1,651.8	75.00	23.024			
6,300.0	5,671.9	6,135.3	5,667.8	43.4	39.7	49.13	-1,130.5	1,412.9	1,726.8	1,651.7	75.13	22.986			
6,400.0	5,771.9	6,235.3	5,767.8	43.5	39.7	49.13	-1,130.5	1,412.9	1,726.8	1,651.6	75.25	22.948			
6,500.0	5,871.9	6,335.3	5,867.8	43.5	39.8	49.13	-1,130.5	1,412.9	1,726.8	1,651.5	75.38	22.909			
6,600.0	5,971.9	6,435.3	5,967.8	43.6	39.8	49.13	-1,130.5	1,412.9	1,726.8	1,651.3	75.51	22.870			
6,700.0	6,071.9	6,535.3	6,067.8	43.6	39.9	49.13	-1,130.5	1,412.9	1,726.8	1,651.2	75.64	22.830			
6,800.0	6,171.9	6,635.3	6,167.8	43.7	40.0	49.13	-1,130.5	1,412.9	1,726.8	1,651.1	75.78	22.789			
6,865.1	6,237.0	6,700.5	6,233.0	43.7	40.0	49.13	-1,130.5	1,412.9	1,726.8	1,651.0	75.87	22.762 SF			



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)							
0.0	0.0	0.0	0.0	0.0	0.0	51.33	54.6	68.3	87.5						
100.0	100.0	96.0	96.0	0.1	0.1	51.33	54.6	68.3	87.5	87.3	0.19	467.331			
200.0	200.0	196.0	196.0	0.3	0.3	51.33	54.6	68.3	87.5	86.8	0.63	138.473 CC, ES			
300.0	299.9	295.9	295.9	0.5	0.5	-127.49	54.6	68.3	89.3	88.2	1.07	83.599			
400.0	399.5	395.5	395.5	0.8	0.8	-131.71	54.6	68.3	95.1	93.6	1.53	62.314			
500.0	498.3	495.2	495.1	1.1	1.0	-136.14	52.6	70.1	105.5	103.5	2.01	52.453			
600.0	596.0	595.1	594.6	1.5	1.2	-138.70	46.0	76.0	119.9	117.4	2.54	47.164			
700.0	692.3	694.9	693.3	2.0	1.4	-139.70	34.9	85.9	137.9	134.7	3.18	43.413			
800.0	786.7	794.5	790.7	2.6	1.8	-139.57	19.3	99.7	159.3	155.4	3.96	40.258			
900.0	878.9	893.5	886.1	3.3	2.3	-138.67	-0.5	117.4	184.0	179.1	4.91	37.442			
1,000.0	968.5	991.9	979.1	4.1	2.9	-137.27	-24.4	138.7	211.9	205.8	6.07	34.924			
1,100.0	1,055.3	1,089.4	1,069.2	5.1	3.6	-135.57	-52.2	163.4	243.0	235.6	7.43	32.725			
1,163.4	1,108.7	1,150.7	1,124.6	5.7	4.1	-134.40	-71.6	180.8	264.4	256.0	8.40	31.472			
1,200.0	1,139.2	1,186.0	1,156.1	6.1	4.4	-133.98	-83.6	191.4	277.1	268.1	8.99	30.813			
1,300.0	1,222.4	1,282.2	1,240.1	7.1	5.3	-132.26	-118.6	222.6	311.2	300.4	10.77	28.891			
1,400.0	1,305.5	1,376.2	1,320.3	8.2	6.3	-130.25	-155.3	255.3	345.0	332.4	12.67	27.241			
1,500.0	1,388.7	1,469.7	1,399.9	9.3	7.3	-128.59	-191.9	287.8	379.2	364.6	14.60	25.971			
1,600.0	1,471.9	1,563.1	1,479.5	10.3	8.3	-127.20	-228.4	320.4	413.6	397.0	16.55	24.990			
1,700.0	1,555.1	1,656.6	1,559.1	11.4	9.4	-126.02	-265.0	352.9	448.2	429.7	18.51	24.213			
1,800.0	1,638.3	1,750.0	1,638.7	12.5	10.4	-125.01	-301.6	385.5	482.9	462.4	20.48	23.584			
1,900.0	1,721.4	1,843.5	1,718.3	13.5	11.4	-124.14	-338.1	418.1	517.7	495.3	22.45	23.065			
2,000.0	1,804.6	1,937.0	1,797.9	14.6	12.5	-123.37	-374.7	450.6	552.7	528.3	24.42	22.631			
2,100.0	1,887.8	2,030.4	1,877.5	15.7	13.5	-122.70	-411.3	483.2	587.7	561.3	26.40	22.264			
2,200.0	1,971.0	2,123.9	1,957.1	16.7	14.6	-122.10	-447.8	515.7	622.8	594.4	28.37	21.948			
2,300.0	2,054.1	2,217.3	2,036.7	17.8	15.6	-121.56	-484.4	548.3	657.9	627.5	30.35	21.674			
2,400.0	2,137.3	2,310.8	2,116.3	18.9	16.6	-121.08	-520.9	580.9	693.1	660.7	32.33	21.435			
2,500.0	2,220.5	2,404.3	2,196.0	20.0	17.7	-120.65	-557.5	613.4	728.3	694.0	34.31	21.225			
2,600.0	2,303.7	2,497.7	2,275.6	21.0	18.7	-120.26	-594.1	646.0	763.5	727.2	36.29	21.038			
2,700.0	2,386.9	2,591.2	2,355.2	22.1	19.8	-119.90	-630.6	678.5	798.8	760.5	38.27	20.871			
2,800.0	2,470.0	2,684.6	2,434.8	23.2	20.8	-119.57	-667.2	711.1	834.1	793.9	40.26	20.721			
2,900.0	2,553.2	2,778.1	2,514.4	24.3	21.9	-119.26	-703.8	743.7	869.4	827.2	42.24	20.585			
3,000.0	2,636.4	2,871.5	2,594.0	25.3	22.9	-118.99	-740.3	776.2	904.8	860.6	44.22	20.462			
3,100.0	2,719.6	2,965.0	2,673.6	26.4	24.0	-118.73	-776.9	808.8	940.1	893.9	46.20	20.350			
3,200.0	2,802.8	3,058.5	2,753.2	27.5	25.0	-118.49	-813.5	841.3	975.5	927.3	48.18	20.248			
3,300.0	2,885.9	3,151.9	2,832.8	28.5	26.1	-118.27	-850.0	873.9	1,010.9	960.7	50.16	20.153			
3,400.0	2,969.1	3,245.4	2,912.4	29.6	27.1	-118.06	-886.6	906.5	1,046.3	994.2	52.14	20.067			
3,500.0	3,052.3	3,338.8	2,992.0	30.7	28.2	-117.86	-923.1	939.0	1,081.7	1,027.6	54.12	19.986			
3,600.0	3,135.5	3,432.3	3,071.6	31.8	29.2	-117.68	-959.7	971.6	1,117.1	1,061.0	56.10	19.912			
3,700.0	3,218.6	3,525.8	3,151.3	32.8	30.3	-117.51	-996.3	1,004.1	1,152.6	1,094.5	58.08	19.843			
3,800.0	3,301.8	3,619.2	3,230.9	33.9	31.3	-117.35	-1,032.8	1,036.7	1,188.0	1,127.9	60.07	19.779			
3,900.0	3,385.0	3,712.7	3,310.5	35.0	32.4	-117.20	-1,069.4	1,069.3	1,223.5	1,161.4	62.05	19.719			
4,000.0	3,468.2	3,806.1	3,390.1	36.1	33.4	-117.06	-1,106.0	1,101.8	1,258.9	1,194.9	64.03	19.662			
4,100.0	3,551.4	3,899.6	3,469.7	37.1	34.5	-116.92	-1,142.5	1,134.4	1,294.4	1,228.4	66.01	19.610			
4,200.0	3,634.5	3,993.1	3,549.3	38.2	35.5	-116.79	-1,179.1	1,166.9	1,329.9	1,261.9	67.99	19.560			
4,247.8	3,674.3	4,037.7	3,587.3	38.7	36.0	-116.74	-1,196.6	1,182.5	1,346.8	1,277.9	68.93	19.537			
4,300.0	3,718.2	4,086.6	3,629.0	39.2	36.6	-117.24	-1,215.7	1,199.5	1,365.0	1,295.0	69.97	19.509			
4,400.0	3,804.6	4,180.7	3,709.2	39.9	37.6	-117.97	-1,252.5	1,232.3	1,397.8	1,326.0	71.81	19.464			
4,500.0	3,894.0	4,278.5	3,792.6	40.6	38.7	-118.37	-1,290.6	1,266.2	1,427.9	1,354.3	73.65	19.389			
4,600.0	3,985.9	4,387.2	3,887.9	41.1	39.6	-118.59	-1,329.5	1,300.9	1,454.8	1,379.5	75.29	19.323			
4,700.0	4,080.1	4,498.3	3,988.8	41.7	40.4	-118.75	-1,364.3	1,331.9	1,478.1	1,401.3	76.73	19.264			
4,800.0	4,176.2	4,611.9	4,094.9	42.1	41.1	-118.85	-1,394.6	1,358.8	1,497.5	1,419.6	77.95	19.212			

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 24C-07-07-95 - Wellbore #1 - Design #1										Offset Site Error:		0.0 usft	
Survey Program:		0-MWD										Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	4,727.5	4,205.5	42.4	41.7	-118.90	-1,419.6	1,381.1	1,513.0	1,434.1	78.94	19.167			
5,000.0	4,372.4	4,844.8	4,319.9	42.7	42.1	-118.89	-1,439.0	1,398.4	1,524.5	1,444.8	79.70	19.128			
5,100.0	4,471.9	4,963.5	4,437.2	42.9	42.4	-118.84	-1,452.4	1,410.3	1,531.9	1,451.7	80.22	19.096			
5,200.0	4,571.9	5,083.1	4,556.4	42.9	42.6	-118.74	-1,459.4	1,416.5	1,535.1	1,454.6	80.50	19.069			
5,211.1	4,583.0	5,096.5	4,569.8	43.0	42.6	58.56	-1,459.7	1,416.9	1,535.2	1,454.7	80.53	19.065			
5,300.0	4,671.9	5,194.6	4,667.8	43.0	42.6	58.60	-1,460.4	1,417.5	1,535.3	1,454.7	80.64	19.040			
5,400.0	4,771.9	5,294.6	4,767.8	43.0	42.7	58.60	-1,460.4	1,417.5	1,535.3	1,454.6	80.73	19.019			
5,500.0	4,871.9	5,394.6	4,867.8	43.1	42.7	58.60	-1,460.4	1,417.5	1,535.3	1,454.5	80.82	18.998			
5,600.0	4,971.9	5,494.6	4,967.8	43.1	42.8	58.60	-1,460.4	1,417.5	1,535.3	1,454.4	80.91	18.976			
5,700.0	5,071.9	5,594.6	5,067.8	43.2	42.8	58.60	-1,460.4	1,417.5	1,535.3	1,454.3	81.01	18.954			
5,800.0	5,171.9	5,694.6	5,167.8	43.2	42.9	58.60	-1,460.4	1,417.5	1,535.3	1,454.2	81.10	18.931			
5,900.0	5,271.9	5,794.6	5,267.8	43.2	42.9	58.60	-1,460.4	1,417.5	1,535.3	1,454.1	81.20	18.907			
6,000.0	5,371.9	5,894.6	5,367.8	43.3	43.0	58.60	-1,460.4	1,417.5	1,535.3	1,454.0	81.31	18.883			
6,100.0	5,471.9	5,994.6	5,467.8	43.3	43.0	58.60	-1,460.4	1,417.5	1,535.3	1,453.9	81.41	18.859			
6,200.0	5,571.9	6,094.6	5,567.8	43.4	43.1	58.60	-1,460.4	1,417.5	1,535.3	1,453.8	81.52	18.834			
6,300.0	5,671.9	6,194.6	5,667.8	43.4	43.2	58.60	-1,460.4	1,417.5	1,535.3	1,453.7	81.63	18.809			
6,400.0	5,771.9	6,294.6	5,767.8	43.5	43.2	58.60	-1,460.4	1,417.5	1,535.3	1,453.6	81.74	18.783			
6,500.0	5,871.9	6,394.6	5,867.8	43.5	43.3	58.60	-1,460.4	1,417.5	1,535.3	1,453.5	81.86	18.756			
6,600.0	5,971.9	6,494.6	5,967.8	43.6	43.3	58.60	-1,460.4	1,417.5	1,535.3	1,453.4	81.97	18.730			
6,700.0	6,071.9	6,594.6	6,067.8	43.6	43.4	58.60	-1,460.4	1,417.5	1,535.3	1,453.2	82.09	18.703			
6,800.0	6,171.9	6,694.6	6,167.8	43.7	43.4	58.60	-1,460.4	1,417.5	1,535.3	1,453.1	82.21	18.675			
6,865.1	6,237.0	6,759.7	6,233.0	43.7	43.5	58.60	-1,460.4	1,417.5	1,535.3	1,453.0	82.29	18.657 SF			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	51.33	39.0	48.8	62.6						
100.0	100.0	96.0	96.0	0.1	0.1	51.33	39.0	48.8	62.5	62.3	0.19	333.809			
200.0	200.0	196.0	196.0	0.3	0.3	51.33	39.0	48.8	62.5	61.8	0.63	98.910 CC, ES			
300.0	299.9	295.9	295.9	0.5	0.5	-128.11	39.0	48.8	64.3	63.2	1.07	60.201			
400.0	399.5	395.5	395.5	0.8	0.8	-133.82	39.0	48.8	70.3	68.8	1.53	46.031			
500.0	498.3	495.6	495.6	1.1	1.0	-139.47	36.8	50.5	80.9	78.8	2.01	40.273			
600.0	596.0	596.2	595.7	1.5	1.2	-142.41	29.6	55.8	94.8	92.3	2.52	37.607			
700.0	692.3	696.8	695.2	2.0	1.4	-143.33	17.6	64.9	111.8	108.7	3.13	35.672			
800.0	786.7	797.4	793.5	2.6	1.8	-142.92	0.6	77.6	131.5	127.7	3.89	33.813			
900.0	878.9	897.8	890.2	3.3	2.3	-141.67	-21.0	93.9	154.0	149.2	4.83	31.907			
1,000.0	968.5	997.8	984.6	4.1	2.9	-139.92	-47.3	113.6	179.1	173.2	5.97	30.021			
1,100.0	1,055.3	1,097.3	1,076.4	5.1	3.6	-137.89	-77.9	136.6	207.1	199.7	7.33	28.257			
1,163.4	1,108.7	1,160.0	1,133.0	5.7	4.1	-136.53	-99.5	152.8	226.2	217.8	8.31	27.200			
1,200.0	1,139.2	1,196.2	1,165.2	6.1	4.4	-135.95	-112.8	162.7	237.4	228.5	8.91	26.639			
1,300.0	1,222.4	1,295.1	1,251.1	7.1	5.4	-133.73	-151.8	192.0	267.3	256.6	10.74	24.886			
1,400.0	1,305.5	1,393.4	1,333.5	8.2	6.5	-130.81	-194.7	224.2	296.3	283.5	12.80	23.148			
1,500.0	1,388.7	1,488.1	1,411.1	9.3	7.6	-127.93	-238.1	256.8	325.4	310.5	14.95	21.765			
1,600.0	1,471.9	1,582.6	1,488.5	10.3	8.7	-125.53	-281.5	289.4	355.2	338.1	17.12	20.747			
1,700.0	1,555.1	1,677.1	1,565.9	11.4	9.9	-123.49	-324.8	321.9	385.4	366.1	19.29	19.978			
1,800.0	1,638.3	1,771.5	1,643.3	12.5	11.0	-121.74	-368.1	354.4	416.0	394.6	21.47	19.381			
1,900.0	1,721.4	1,866.0	1,720.7	13.5	12.1	-120.24	-411.5	386.9	446.9	423.3	23.64	18.908			
2,000.0	1,804.6	1,960.5	1,798.1	14.6	13.3	-118.92	-454.8	419.5	478.1	452.3	25.81	18.527			
2,100.0	1,887.8	2,055.0	1,875.5	15.7	14.4	-117.77	-498.1	452.0	509.5	481.5	27.97	18.214			
2,200.0	1,971.0	2,149.4	1,952.9	16.7	15.6	-116.74	-541.4	484.5	541.0	510.9	30.14	17.953			
2,300.0	2,054.1	2,243.9	2,030.3	17.8	16.7	-115.83	-584.8	517.0	572.7	540.4	32.30	17.733			
2,400.0	2,137.3	2,338.4	2,107.7	18.9	17.9	-115.02	-628.1	549.6	604.5	570.1	34.45	17.547			
2,500.0	2,220.5	2,432.9	2,185.1	20.0	19.1	-114.29	-671.4	582.1	636.4	599.8	36.60	17.386			
2,600.0	2,303.7	2,527.3	2,262.5	21.0	20.2	-113.62	-714.7	614.6	668.4	629.6	38.76	17.246			
2,700.0	2,386.9	2,621.8	2,339.9	22.1	21.4	-113.02	-758.1	647.1	700.4	659.5	40.90	17.124			
2,800.0	2,470.0	2,716.3	2,417.3	23.2	22.5	-112.47	-801.4	679.7	732.6	689.5	43.05	17.017			
2,900.0	2,553.2	2,810.8	2,494.7	24.3	23.7	-111.96	-844.7	712.2	764.7	719.5	45.19	16.922			
3,000.0	2,636.4	2,905.2	2,572.1	25.3	24.8	-111.50	-888.1	744.7	797.0	749.6	47.33	16.837			
3,100.0	2,719.6	2,999.7	2,649.5	26.4	26.0	-111.07	-931.4	777.2	829.2	779.7	49.47	16.761			
3,200.0	2,802.8	3,094.2	2,726.9	27.5	27.2	-110.67	-974.7	809.8	861.5	809.9	51.61	16.692			
3,300.0	2,885.9	3,188.7	2,804.3	28.5	28.3	-110.31	-1,018.0	842.3	893.9	840.1	53.75	16.630			
3,400.0	2,969.1	3,283.1	2,881.7	29.6	29.5	-109.96	-1,061.4	874.8	926.2	870.3	55.88	16.574			
3,500.0	3,052.3	3,377.6	2,959.1	30.7	30.6	-109.64	-1,104.7	907.4	958.6	900.6	58.02	16.523			
3,600.0	3,135.5	3,472.1	3,036.5	31.8	31.8	-109.35	-1,148.0	939.9	991.1	930.9	60.15	16.476			
3,700.0	3,218.6	3,566.6	3,113.9	32.8	33.0	-109.07	-1,191.4	972.4	1,023.5	961.2	62.28	16.433			
3,800.0	3,301.8	3,661.0	3,191.3	33.9	34.1	-108.80	-1,234.7	1,004.9	1,056.0	991.6	64.41	16.393			
3,900.0	3,385.0	3,755.5	3,268.7	35.0	35.3	-108.56	-1,278.0	1,037.5	1,088.5	1,021.9	66.54	16.357			
4,000.0	3,468.2	3,850.0	3,346.1	36.1	36.4	-108.33	-1,321.3	1,070.0	1,121.0	1,052.3	68.67	16.323			
4,100.0	3,551.4	3,944.5	3,423.5	37.1	37.6	-108.11	-1,364.7	1,102.5	1,153.5	1,082.7	70.80	16.291			
4,200.0	3,634.5	4,038.9	3,500.9	38.2	38.8	-107.90	-1,408.0	1,135.0	1,186.0	1,113.1	72.93	16.262			
4,247.8	3,674.3	4,084.1	3,537.9	38.7	39.3	-107.80	-1,428.7	1,150.6	1,201.6	1,127.6	73.95	16.249			
4,300.0	3,718.2	4,133.5	3,578.3	39.2	39.9	-108.25	-1,451.3	1,167.6	1,218.3	1,143.2	75.06	16.231			
4,400.0	3,804.6	4,228.1	3,655.8	39.9	41.1	-108.86	-1,494.8	1,200.2	1,249.0	1,172.0	77.03	16.215			
4,500.0	3,894.0	4,322.6	3,733.2	40.6	42.2	-109.15	-1,538.1	1,232.7	1,278.0	1,199.1	78.95	16.188			
4,600.0	3,985.9	4,429.9	3,822.1	41.1	43.4	-109.09	-1,586.2	1,268.8	1,305.0	1,224.2	80.81	16.150			
4,700.0	4,080.1	4,547.5	3,923.5	41.7	44.4	-108.89	-1,633.8	1,304.5	1,328.9	1,246.5	82.44	16.120			
4,800.0	4,176.2	4,668.4	4,032.0	42.1	45.3	-108.66	-1,676.4	1,336.5	1,349.5	1,265.6	83.87	16.090			

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												B&V - B&V 24D-07-07-95 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD														Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
4,900.0	4,273.7	4,792.5	4,147.0	42.4	46.1	-108.38	-1,713.5	1,364.3	1,366.5	1,281.4	85.07	16.063				
5,000.0	4,372.4	4,919.4	4,268.1	42.7	46.8	-108.06	-1,744.0	1,387.3	1,379.7	1,293.7	86.01	16.041				
5,100.0	4,471.9	5,048.9	4,394.1	42.9	47.2	-107.71	-1,767.4	1,404.8	1,389.1	1,302.4	86.69	16.023				
5,200.0	4,571.9	5,180.4	4,524.2	42.9	47.6	-107.31	-1,782.8	1,416.4	1,394.4	1,307.3	87.12	16.007				
5,211.1	4,583.0	5,195.1	4,538.9	43.0	47.6	70.02	-1,784.1	1,417.3	1,394.8	1,307.6	87.15	16.004				
5,300.0	4,671.9	5,313.5	4,657.0	43.0	47.7	70.31	-1,790.0	1,421.8	1,396.4	1,309.1	87.33	15.990				
5,400.0	4,771.9	5,424.4	4,767.8	43.0	47.8	70.34	-1,790.4	1,422.1	1,396.5	1,309.1	87.43	15.974				
5,500.0	4,871.9	5,524.4	4,867.8	43.1	47.8	70.34	-1,790.4	1,422.1	1,396.5	1,309.0	87.51	15.959				
5,600.0	4,971.9	5,624.4	4,967.8	43.1	47.9	70.34	-1,790.4	1,422.1	1,396.5	1,309.0	87.59	15.944				
5,700.0	5,071.9	5,724.4	5,067.8	43.2	47.9	70.34	-1,790.4	1,422.1	1,396.5	1,308.9	87.68	15.928				
5,800.0	5,171.9	5,824.4	5,167.8	43.2	48.0	70.34	-1,790.4	1,422.1	1,396.5	1,308.8	87.77	15.912				
5,900.0	5,271.9	5,924.4	5,267.8	43.2	48.0	70.34	-1,790.4	1,422.1	1,396.5	1,308.7	87.86	15.896				
6,000.0	5,371.9	6,024.4	5,367.8	43.3	48.1	70.34	-1,790.4	1,422.1	1,396.5	1,308.6	87.95	15.879				
6,100.0	5,471.9	6,124.4	5,467.8	43.3	48.1	70.34	-1,790.4	1,422.1	1,396.5	1,308.5	88.05	15.862				
6,200.0	5,571.9	6,224.4	5,567.8	43.4	48.2	70.34	-1,790.4	1,422.1	1,396.5	1,308.4	88.14	15.844				
6,300.0	5,671.9	6,324.4	5,667.8	43.4	48.2	70.34	-1,790.4	1,422.1	1,396.5	1,308.3	88.24	15.826				
6,400.0	5,771.9	6,424.4	5,767.8	43.5	48.2	70.34	-1,790.4	1,422.1	1,396.5	1,308.2	88.34	15.808				
6,500.0	5,871.9	6,524.4	5,867.8	43.5	48.3	70.34	-1,790.4	1,422.1	1,396.5	1,308.1	88.45	15.790				
6,600.0	5,971.9	6,624.4	5,967.8	43.6	48.4	70.34	-1,790.4	1,422.1	1,396.5	1,308.0	88.55	15.771				
6,700.0	6,071.9	6,724.4	6,067.8	43.6	48.4	70.34	-1,790.4	1,422.1	1,396.5	1,307.9	88.66	15.751				
6,800.0	6,171.9	6,824.4	6,167.8	43.7	48.5	70.34	-1,790.4	1,422.1	1,396.5	1,307.8	88.77	15.732				
6,865.1	6,237.0	6,889.5	6,233.0	43.7	48.5	70.34	-1,790.4	1,422.1	1,396.5	1,307.7	88.84	15.719 SF				

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													B&V - B&V 33A-07-07-95 - Wellbore #1 - Design #1		Offset Site Error: 0.0 usft	
Survey Program: 0-MWD													Offset Well Error: 0.0 usft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	51.33	110.9	138.5	177.4							
100.0	100.0	100.0	100.0	0.1	0.1	51.33	110.9	138.5	177.4	177.2	0.19	950.990				
200.0	200.0	200.0	200.0	0.3	0.3	51.33	110.9	138.5	177.4	176.8	0.64	278.912	CC, ES			
300.0	299.9	291.0	290.9	0.5	0.5	-126.20	111.4	141.0	181.7	180.6	1.06	171.532				
400.0	399.5	380.9	380.5	0.8	0.7	-126.82	113.0	148.3	194.5	193.0	1.54	126.214				
500.0	498.3	468.7	467.5	1.1	1.0	-127.64	115.6	160.0	215.8	213.7	2.10	102.978				
600.0	596.0	553.7	550.9	1.5	1.3	-128.42	119.1	175.7	245.4	242.6	2.73	89.970				
700.0	692.3	634.9	629.8	2.0	1.7	-129.01	123.3	194.6	282.8	279.4	3.43	82.462				
800.0	786.7	711.8	703.5	2.6	2.1	-129.30	128.0	216.0	327.7	323.5	4.20	77.933				
900.0	878.9	784.1	771.7	3.3	2.5	-129.27	133.2	239.2	379.5	374.4	5.05	75.087				
1,000.0	968.5	851.3	834.2	4.1	3.0	-128.87	138.5	263.3	437.7	431.7	5.97	73.274				
1,100.0	1,055.3	913.3	890.9	5.1	3.5	-128.10	144.0	287.8	501.6	494.7	6.96	72.109				
1,163.4	1,108.7	949.9	923.9	5.7	3.9	-127.41	147.4	303.3	544.8	537.2	7.62	71.519				
1,200.0	1,139.2	970.3	942.2	6.1	4.0	-127.92	149.4	312.2	570.6	562.6	8.00	71.362				
1,300.0	1,222.4	1,024.2	989.9	7.1	4.5	-129.00	154.8	336.9	642.1	633.1	9.03	71.124				
1,400.0	1,305.5	1,075.8	1,034.6	8.2	5.1	-129.75	160.4	361.8	715.4	705.4	10.08	71.008				
1,500.0	1,388.7	1,125.0	1,076.6	9.3	5.6	-130.25	165.9	387.0	790.4	779.2	11.13	71.005				
1,600.0	1,471.9	1,172.0	1,115.9	10.3	6.2	-130.57	171.5	412.1	866.7	854.5	12.20	71.024				
1,700.0	1,555.1	1,216.8	1,152.6	11.4	6.7	-130.75	177.0	437.0	944.4	931.2	13.26	71.239				
1,800.0	1,638.3	1,263.8	1,190.5	12.5	7.3	-130.84	183.1	464.2	1,023.3	1,009.0	14.35	71.307				
1,900.0	1,721.4	1,317.9	1,233.6	13.5	8.0	-130.88	190.1	496.2	1,102.9	1,087.4	15.49	71.205				
2,000.0	1,804.6	1,378.5	1,281.8	14.6	8.8	-130.92	198.1	532.0	1,182.5	1,165.9	16.66	70.990				
2,100.0	1,887.8	1,439.0	1,330.0	15.7	9.6	-130.96	206.0	567.7	1,262.2	1,244.3	17.83	70.772				
2,200.0	1,971.0	1,499.5	1,378.2	16.7	10.5	-130.99	213.9	603.5	1,341.8	1,322.7	19.01	70.564				
2,300.0	2,054.1	1,560.0	1,426.3	17.8	11.3	-131.02	221.8	639.2	1,421.4	1,401.2	20.21	70.346				
2,400.0	2,137.3	1,620.5	1,474.5	18.9	12.1	-131.04	229.8	675.0	1,501.0	1,479.6	21.40	70.145				
2,500.0	2,220.5	1,681.0	1,522.7	20.0	12.9	-131.07	237.7	710.7	1,580.6	1,558.0	22.60	69.951				
2,600.0	2,303.7	1,741.6	1,570.9	21.0	13.7	-131.09	245.6	746.5	1,660.2	1,636.4	23.80	69.765				
2,700.0	2,386.9	1,802.1	1,619.1	22.1	14.6	-131.11	253.5	782.2	1,739.8	1,714.8	25.00	69.592				
2,800.0	2,470.0	1,862.6	1,667.3	23.2	15.4	-131.12	261.5	818.0	1,819.4	1,793.2	26.21	69.425				
2,900.0	2,553.2	1,923.1	1,715.4	24.3	16.2	-131.14	269.4	853.7	1,899.0	1,871.6	27.42	69.268				
3,000.0	2,636.4	1,983.6	1,763.6	25.3	17.0	-131.15	277.3	889.5	1,978.6	1,950.0	28.63	69.120				
3,100.0	2,719.6	2,044.1	1,811.8	26.4	17.9	-131.17	285.2	925.2	2,058.2	2,028.4	29.84	68.979				
3,200.0	2,802.8	2,104.7	1,860.0	27.5	18.7	-131.18	293.2	961.0	2,137.8	2,106.8	31.05	68.847				
3,300.0	2,885.9	2,165.2	1,908.2	28.5	19.5	-131.19	301.1	996.7	2,217.5	2,185.2	32.27	68.721				
3,400.0	2,969.1	2,225.7	1,956.4	29.6	20.4	-131.20	309.0	1,032.5	2,297.1	2,263.6	33.48	68.603				
3,500.0	3,052.3	2,286.2	2,004.5	30.7	21.2	-131.21	316.9	1,068.2	2,376.7	2,342.0	34.70	68.490				
3,600.0	3,135.5	2,346.7	2,052.7	31.8	22.0	-131.22	324.8	1,104.0	2,456.3	2,420.4	35.92	68.383				
3,700.0	3,218.6	2,407.3	2,100.9	32.8	22.8	-131.23	332.8	1,139.7	2,535.9	2,498.8	37.14	68.282				
3,800.0	3,301.8	2,467.8	2,149.1	33.9	23.7	-131.24	340.7	1,175.5	2,615.5	2,577.1	38.36	68.185				
3,900.0	3,385.0	2,528.3	2,197.3	35.0	24.5	-131.25	348.6	1,211.2	2,695.1	2,655.5	39.58	68.094				
4,000.0	3,468.2	2,588.8	2,245.5	36.1	25.3	-131.25	356.5	1,246.9	2,774.7	2,733.9	40.80	68.006				
4,100.0	3,551.4	2,649.3	2,293.6	37.1	26.2	-131.26	364.5	1,282.7	2,854.3	2,812.3	42.02	67.923				
4,200.0	3,634.5	2,709.8	2,341.8	38.2	27.0	-131.27	372.4	1,318.4	2,933.9	2,890.7	43.25	67.844				
4,247.8	3,674.3	2,738.8	2,364.9	38.7	27.4	-131.27	376.2	1,335.5	2,972.0	2,928.2	43.83	67.807				
4,300.0	3,718.2	2,770.8	2,390.4	39.2	27.8	-133.00	380.4	1,354.4	3,013.2	2,968.6	44.60	67.556				
4,400.0	3,804.6	2,834.5	2,441.1	39.9	28.7	-135.88	388.7	1,392.1	3,090.2	3,044.2	46.02	67.155				
4,500.0	3,894.0	2,901.0	2,494.0	40.6	29.6	-138.27	397.4	1,431.4	3,164.3	3,116.8	47.44	66.698				
4,600.0	3,985.9	2,970.2	2,549.1	41.1	30.6	-140.25	406.5	1,472.2	3,235.3	3,186.4	48.85	66.228				
4,700.0	4,080.1	3,041.7	2,606.0	41.7	31.6	-141.87	415.8	1,514.5	3,303.0	3,252.8	50.21	65.777				
4,800.0	4,176.2	3,115.3	2,664.7	42.1	32.6	-143.20	425.5	1,557.9	3,367.2	3,315.7	51.51	65.371				

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 33A-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	3,190.7	2,724.7	42.4	33.6	-144.26	435.4	1,602.5	3,427.7	3,375.0	52.71	65.027			
5,000.0	4,372.4	3,267.7	2,786.0	42.7	34.7	-145.11	445.4	1,648.0	3,484.5	3,430.7	53.81	64.760			
5,100.0	4,471.9	3,345.9	2,848.3	42.9	35.7	-145.76	455.7	1,694.2	3,537.3	3,482.5	54.77	64.581			
5,200.0	4,571.9	3,425.1	2,911.3	42.9	36.8	-146.24	466.0	1,740.9	3,586.1	3,530.5	55.60	64.502			
5,211.1	4,583.0	3,433.9	2,918.4	43.0	36.9	31.00	467.2	1,746.2	3,591.3	3,535.6	55.68	64.499			
5,300.0	4,671.9	3,504.7	2,974.7	43.0	37.9	31.56	476.5	1,788.0	3,632.7	3,576.2	56.51	64.288			
5,400.0	4,771.9	3,584.3	3,038.1	43.0	39.0	32.17	486.9	1,835.0	3,679.6	3,622.2	57.41	64.090			
5,500.0	4,871.9	3,663.9	3,101.5	43.1	40.1	32.77	497.3	1,882.0	3,726.9	3,668.6	58.30	63.924			
5,600.0	4,971.9	3,743.6	3,164.9	43.1	41.2	33.35	507.7	1,929.1	3,774.6	3,715.4	59.17	63.788			
5,700.0	5,071.9	3,823.2	3,228.3	43.2	42.3	33.93	518.2	1,976.1	3,822.6	3,762.6	60.03	63.678			
5,800.0	5,171.9	3,902.8	3,291.7	43.2	43.4	34.49	528.6	2,023.1	3,871.0	3,810.2	60.87	63.594			
5,900.0	5,271.9	3,982.4	3,355.0	43.2	44.5	35.04	539.0	2,070.1	3,919.8	3,858.1	61.70	63.534			
6,000.0	5,371.9	4,063.9	3,418.2	43.3	45.1	41.47	679.9	2,705.6	3,924.0	3,853.6	70.38	55.754			
6,100.0	5,471.9	4,149.4	3,481.4	43.3	46.2	41.47	679.9	2,705.6	3,924.0	3,853.5	70.51	55.655			
6,200.0	5,571.9	4,239.4	3,544.6	43.4	46.8	41.47	679.9	2,705.6	3,924.0	3,853.4	70.63	55.554			
6,300.0	5,671.9	4,329.4	3,607.8	43.4	47.3	41.47	679.9	2,705.6	3,924.0	3,853.2	70.76	55.451			
6,400.0	5,771.9	4,419.4	3,671.0	43.5	47.8	41.47	679.9	2,705.6	3,924.0	3,853.1	70.90	55.347			
6,500.0	5,871.9	4,509.4	3,734.2	43.5	48.4	41.47	679.9	2,705.6	3,924.0	3,853.0	71.03	55.241			
6,600.0	5,971.9	4,599.4	3,797.4	43.6	48.9	41.47	679.9	2,705.6	3,924.0	3,852.8	71.17	55.133			
6,700.0	6,071.9	4,689.4	3,860.6	43.6	49.5	41.47	679.9	2,705.6	3,924.0	3,852.7	71.31	55.024			
6,800.0	6,171.9	4,779.4	3,923.8	43.7	50.0	41.47	679.9	2,705.6	3,924.0	3,852.5	71.46	54.913			
6,865.1	6,237.0	4,844.5	4,000.0	43.7	50.5	41.47	679.9	2,705.6	3,924.0	3,852.5	71.55	54.841 SF			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	51.33	104.6	130.7	167.4						
100.0	100.0	100.0	100.0	0.1	0.1	51.33	104.6	130.7	167.4	167.2	0.19	897.412			
200.0	200.0	200.0	200.0	0.3	0.3	51.33	104.6	130.7	167.4	166.8	0.64	263.199 CC, ES			
300.0	299.9	291.9	291.9	0.5	0.5	-126.13	104.9	133.3	171.6	170.5	1.06	161.953			
400.0	399.5	382.9	382.5	0.8	0.7	-126.59	105.6	140.9	184.0	182.5	1.54	119.381			
500.0	498.3	472.0	470.7	1.1	1.0	-127.16	106.9	153.1	204.6	202.5	2.10	97.372			
600.0	596.0	558.3	555.5	1.5	1.3	-127.68	108.6	169.6	233.1	230.3	2.74	84.953			
700.0	692.3	641.3	635.9	2.0	1.7	-128.02	110.6	189.5	269.1	265.7	3.47	77.619			
800.0	786.7	720.2	711.5	2.6	2.1	-128.11	112.9	212.3	312.4	308.2	4.27	73.086			
900.0	878.9	800.0	786.7	3.3	2.7	-128.00	115.6	238.9	362.4	357.3	5.18	69.958			
1,000.0	968.5	864.6	846.5	4.1	3.1	-127.38	118.1	263.1	418.6	412.4	6.13	68.276			
1,100.0	1,055.3	929.5	905.6	5.1	3.7	-126.53	120.8	289.8	480.4	473.2	7.17	67.033			
1,163.4	1,108.7	968.1	940.2	5.7	4.0	-125.81	122.5	306.7	522.2	514.4	7.86	66.427			
1,200.0	1,139.2	989.7	959.4	6.1	4.2	-126.27	123.5	316.5	547.1	538.8	8.26	66.201			
1,300.0	1,222.4	1,046.9	1,009.6	7.1	4.8	-127.22	126.3	343.9	616.4	607.0	9.38	65.725			
1,400.0	1,305.5	1,100.0	1,055.3	8.2	5.4	-127.81	129.0	370.7	687.5	677.0	10.50	65.493			
1,500.0	1,388.7	1,154.4	1,101.2	9.3	6.0	-128.17	132.0	399.7	760.2	748.5	11.67	65.162			
1,600.0	1,471.9	1,200.0	1,139.0	10.3	6.5	-128.33	134.6	425.2	834.4	821.6	12.78	65.312			
1,700.0	1,555.1	1,253.8	1,182.5	11.4	7.2	-128.38	137.7	456.7	909.9	895.9	13.98	65.102			
1,800.0	1,638.3	1,316.9	1,233.0	12.5	8.1	-128.37	141.6	494.4	986.1	970.9	15.24	64.710			
1,900.0	1,721.4	1,381.6	1,284.8	13.5	8.9	-128.35	145.5	533.0	1,062.4	1,045.8	16.51	64.330			
2,000.0	1,804.6	1,446.4	1,336.6	14.6	9.8	-128.34	149.4	571.7	1,138.6	1,120.8	17.80	63.972			
2,100.0	1,887.8	1,511.1	1,388.3	15.7	10.7	-128.33	153.4	610.3	1,214.8	1,195.7	19.09	63.644			
2,200.0	1,971.0	1,575.8	1,440.1	16.7	11.6	-128.32	157.3	649.0	1,291.0	1,270.6	20.38	63.333			
2,300.0	2,054.1	1,640.6	1,491.9	17.8	12.4	-128.31	161.2	687.6	1,367.2	1,345.6	21.69	63.047			
2,400.0	2,137.3	1,705.3	1,543.7	18.9	13.3	-128.30	165.2	726.3	1,443.5	1,420.5	22.99	62.785			
2,500.0	2,220.5	1,770.0	1,595.4	20.0	14.2	-128.30	169.1	764.9	1,519.7	1,495.4	24.30	62.539			
2,600.0	2,303.7	1,834.8	1,647.2	21.0	15.1	-128.29	173.0	803.6	1,595.9	1,570.3	25.61	62.312			
2,700.0	2,386.9	1,899.5	1,699.0	22.1	16.0	-128.28	176.9	842.2	1,672.1	1,645.2	26.92	62.104			
2,800.0	2,470.0	1,964.2	1,750.8	23.2	16.9	-128.28	180.9	880.9	1,748.3	1,720.1	28.24	61.908			
2,900.0	2,553.2	2,029.0	1,802.5	24.3	17.8	-128.27	184.8	919.5	1,824.6	1,795.0	29.56	61.727			
3,000.0	2,636.4	2,093.7	1,854.3	25.3	18.6	-128.27	188.7	958.2	1,900.8	1,869.9	30.88	61.558			
3,100.0	2,719.6	2,158.4	1,906.1	26.4	19.5	-128.26	192.7	996.8	1,977.0	1,944.8	32.20	61.400			
3,200.0	2,802.8	2,223.2	1,957.9	27.5	20.4	-128.26	196.6	1,035.5	2,053.2	2,019.7	33.52	61.253			
3,300.0	2,885.9	2,287.9	2,009.6	28.5	21.3	-128.26	200.5	1,074.1	2,129.5	2,094.6	34.84	61.115			
3,400.0	2,969.1	2,352.6	2,061.4	29.6	22.2	-128.25	204.4	1,112.8	2,205.7	2,169.5	36.17	60.985			
3,500.0	3,052.3	2,417.4	2,113.2	30.7	23.1	-128.25	208.4	1,151.4	2,281.9	2,244.4	37.49	60.863			
3,600.0	3,135.5	2,482.1	2,165.0	31.8	24.0	-128.25	212.3	1,190.1	2,358.1	2,319.3	38.82	60.748			
3,700.0	3,218.6	2,546.8	2,216.8	32.8	24.9	-128.24	216.2	1,228.7	2,434.3	2,394.2	40.14	60.640			
3,800.0	3,301.8	2,611.6	2,268.5	33.9	25.7	-128.24	220.2	1,267.4	2,510.6	2,469.1	41.47	60.538			
3,900.0	3,385.0	2,676.3	2,320.3	35.0	26.6	-128.24	224.1	1,306.1	2,586.8	2,544.0	42.80	60.441			
4,000.0	3,468.2	2,741.0	2,372.1	36.1	27.5	-128.24	228.0	1,344.7	2,663.0	2,618.9	44.13	60.349			
4,100.0	3,551.4	2,805.8	2,423.9	37.1	28.4	-128.24	232.0	1,383.4	2,739.2	2,693.8	45.45	60.263			
4,200.0	3,634.5	2,870.5	2,475.6	38.2	29.3	-128.23	235.9	1,422.0	2,815.5	2,768.7	46.78	60.180			
4,247.8	3,674.3	2,901.4	2,500.4	38.7	29.7	-128.23	237.8	1,440.5	2,851.9	2,804.5	47.42	60.142			
4,300.0	3,718.2	2,935.6	2,527.7	39.2	30.2	-129.85	239.8	1,460.9	2,891.3	2,843.0	48.31	59.846			
4,400.0	3,804.6	3,003.1	2,581.7	39.9	31.1	-132.57	243.9	1,501.2	2,964.9	2,915.0	49.93	59.386			
4,500.0	3,894.0	3,073.2	2,637.8	40.6	32.1	-134.85	248.2	1,543.0	3,035.6	2,984.1	51.53	58.911			
4,600.0	3,985.9	3,145.4	2,695.6	41.1	33.1	-136.74	252.6	1,586.2	3,103.3	3,050.2	53.09	58.449			
4,700.0	4,080.1	3,219.7	2,754.9	41.7	34.1	-138.31	257.1	1,630.5	3,167.7	3,113.1	54.60	58.018			
4,800.0	4,176.2	3,295.6	2,815.7	42.1	35.2	-139.59	261.7	1,675.8	3,228.7	3,172.7	56.02	57.636			

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 33B-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	3,372.9	2,877.5	42.4	36.2	-140.62	266.4	1,722.0	3,286.1	3,228.8	57.34	57.314			
5,000.0	4,372.4	3,451.4	2,940.2	42.7	37.3	-141.43	271.1	1,768.9	3,339.9	3,281.4	58.53	57.064			
5,100.0	4,471.9	3,530.6	3,003.6	42.9	38.4	-142.06	276.0	1,816.2	3,389.9	3,330.4	59.58	56.894			
5,200.0	4,571.9	3,610.4	3,067.5	42.9	39.5	-142.52	280.8	1,863.8	3,436.1	3,375.6	60.48	56.811			
5,211.1	4,583.0	3,619.3	3,074.6	43.0	39.6	34.73	281.3	1,869.2	3,441.0	3,380.5	60.57	56.807			
5,300.0	4,671.9	3,690.4	3,131.5	43.0	40.6	35.33	285.7	1,911.6	3,480.2	3,418.8	61.43	56.656			
5,400.0	4,771.9	3,770.4	3,195.4	43.0	41.7	35.99	290.5	1,959.4	3,524.7	3,462.3	62.36	56.522			
5,500.0	4,871.9	3,850.4	3,259.4	43.1	42.8	36.63	295.4	2,007.1	3,569.6	3,506.4	63.27	56.415			
5,600.0	4,971.9	3,930.4	3,323.4	43.1	43.9	37.26	300.2	2,054.9	3,615.0	3,550.8	64.17	56.335			
5,700.0	5,071.9	4,010.4	3,387.4	43.2	45.0	37.88	305.1	2,102.6	3,660.8	3,595.8	65.05	56.279			
5,800.0	5,171.9	5,961.0	5,171.9	43.2	57.8	44.75	367.0	2,711.6	3,699.6	3,626.1	73.55	50.300			
5,900.0	5,271.9	6,061.0	5,271.9	43.2	57.8	44.75	367.0	2,711.6	3,699.6	3,625.9	73.67	50.222			
6,000.0	5,371.9	6,161.0	5,371.9	43.3	57.9	44.75	367.0	2,711.6	3,699.6	3,625.8	73.78	50.142			
6,100.0	5,471.9	6,261.0	5,471.9	43.3	57.9	44.75	367.0	2,711.6	3,699.6	3,625.7	73.90	50.061			
6,200.0	5,571.9	6,361.0	5,571.9	43.4	58.0	44.75	367.0	2,711.6	3,699.6	3,625.6	74.02	49.978			
6,300.0	5,671.9	6,461.0	5,671.9	43.4	58.0	44.75	367.0	2,711.6	3,699.6	3,625.5	74.15	49.894			
6,400.0	5,771.9	6,561.0	5,771.9	43.5	58.1	44.75	367.0	2,711.6	3,699.6	3,625.3	74.28	49.809			
6,500.0	5,871.9	6,661.0	5,871.9	43.5	58.1	44.75	367.0	2,711.6	3,699.6	3,625.2	74.41	49.722			
6,600.0	5,971.9	6,761.0	5,971.9	43.6	58.2	44.75	367.0	2,711.6	3,699.6	3,625.1	74.54	49.634			
6,700.0	6,071.9	6,861.0	6,071.9	43.6	58.2	44.75	367.0	2,711.6	3,699.6	3,624.9	74.67	49.544			
6,800.0	6,171.9	6,961.0	6,171.9	43.7	58.3	44.75	367.0	2,711.6	3,699.6	3,624.8	74.81	49.453			
6,865.1	6,237.0	7,026.1	6,237.0	43.7	58.3	44.75	367.0	2,711.6	3,699.6	3,624.7	74.90	49.393 SF			



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													B&V - B&V 33C-07-07-95 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD															Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
0.0	0.0	0.0	0.0	0.0	0.0	51.33	98.4	122.9	157.4								
100.0	100.0	100.0	100.0	0.1	0.1	51.33	98.4	122.9	157.4	157.2	0.19	843.835					
200.0	200.0	200.0	200.0	0.3	0.3	51.33	98.4	122.9	157.4	156.8	0.64	247.485	CC, ES				
300.0	299.9	293.0	292.9	0.5	0.5	-126.06	98.3	125.5	161.4	160.3	1.06	152.364					
400.0	399.5	385.1	384.7	0.8	0.8	-126.32	98.1	133.4	173.3	171.7	1.54	112.477					
500.0	498.3	475.5	474.2	1.1	1.0	-126.62	97.8	146.0	192.9	190.8	2.11	91.612					
600.0	596.0	563.5	560.5	1.5	1.4	-126.85	97.4	163.1	220.1	217.3	2.76	79.689					
700.0	692.3	648.3	642.8	2.0	1.8	-126.91	96.9	183.9	254.5	251.0	3.51	72.432					
800.0	786.7	729.5	720.4	2.6	2.2	-126.76	96.4	207.8	295.8	291.4	4.36	67.838					
900.0	878.9	806.7	792.9	3.3	2.7	-126.36	95.7	234.0	343.5	338.2	5.30	64.863					
1,000.0	968.5	879.5	860.1	4.1	3.3	-125.70	95.1	261.9	397.2	390.8	6.32	62.816					
1,100.0	1,055.3	947.7	922.0	5.1	3.9	-124.77	94.4	290.7	456.3	448.9	7.43	61.435					
1,163.4	1,108.7	988.6	958.5	5.7	4.2	-124.03	94.0	309.2	496.4	488.3	8.16	60.812					
1,200.0	1,139.2	1,011.6	978.7	6.1	4.5	-124.44	93.7	319.9	520.3	511.7	8.60	60.508					
1,300.0	1,222.4	1,072.6	1,031.9	7.1	5.1	-125.22	93.0	350.0	586.9	577.1	9.81	59.819					
1,400.0	1,305.5	1,131.4	1,082.0	8.2	5.8	-125.65	92.3	380.7	655.2	644.1	11.05	59.288					
1,500.0	1,388.7	1,187.8	1,129.0	9.3	6.4	-125.82	91.5	411.9	725.1	712.8	12.30	58.945					
1,600.0	1,471.9	1,241.9	1,173.0	10.3	7.1	-125.82	90.8	443.4	796.5	783.0	13.56	58.723					
1,700.0	1,555.1	1,306.4	1,224.5	11.4	8.0	-125.70	89.9	482.0	869.0	854.1	14.92	58.231					
1,800.0	1,638.3	1,375.2	1,279.5	12.5	8.9	-125.59	88.9	523.4	941.5	925.2	16.32	57.697					
1,900.0	1,721.4	1,444.0	1,334.5	13.5	9.8	-125.49	87.9	564.8	1,014.1	996.4	17.72	57.220					
2,000.0	1,804.6	1,512.8	1,389.5	14.6	10.8	-125.41	87.0	606.2	1,086.6	1,067.5	19.13	56.794					
2,100.0	1,887.8	1,581.7	1,444.5	15.7	11.7	-125.33	86.0	647.5	1,159.2	1,138.6	20.55	56.406					
2,200.0	1,971.0	1,650.5	1,499.5	16.7	12.7	-125.27	85.0	688.9	1,231.7	1,209.7	21.97	56.057					
2,300.0	2,054.1	1,719.3	1,554.4	17.8	13.6	-125.21	84.0	730.3	1,304.3	1,280.9	23.40	55.741					
2,400.0	2,137.3	1,788.1	1,609.4	18.9	14.6	-125.16	83.1	771.7	1,376.8	1,352.0	24.83	55.455					
2,500.0	2,220.5	1,856.9	1,664.4	20.0	15.5	-125.11	82.1	813.1	1,449.4	1,423.1	26.26	55.193					
2,600.0	2,303.7	1,925.8	1,719.4	21.0	16.5	-125.07	81.1	854.4	1,521.9	1,494.2	27.69	54.954					
2,700.0	2,386.9	1,994.6	1,774.4	22.1	17.4	-125.03	80.1	895.8	1,594.4	1,565.3	29.13	54.736					
2,800.0	2,470.0	2,063.4	1,829.4	23.2	18.4	-125.00	79.2	937.2	1,667.0	1,636.4	30.57	54.534					
2,900.0	2,553.2	2,132.2	1,884.4	24.3	19.3	-124.96	78.2	978.6	1,739.5	1,707.5	32.01	54.349					
3,000.0	2,636.4	2,201.1	1,939.3	25.3	20.3	-124.93	77.2	1,019.9	1,812.1	1,778.6	33.45	54.178					
3,100.0	2,719.6	2,269.9	1,994.3	26.4	21.3	-124.91	76.2	1,061.3	1,884.6	1,849.7	34.89	54.019					
3,200.0	2,802.8	2,338.7	2,049.3	27.5	22.2	-124.88	75.3	1,102.7	1,957.2	1,920.9	36.33	53.871					
3,300.0	2,885.9	2,407.5	2,104.3	28.5	23.2	-124.86	74.3	1,144.1	2,029.7	1,992.0	37.77	53.733					
3,400.0	2,969.1	2,476.3	2,159.3	29.6	24.1	-124.84	73.3	1,185.4	2,102.3	2,063.1	39.22	53.605					
3,500.0	3,052.3	2,545.2	2,214.3	30.7	25.1	-124.82	72.3	1,226.8	2,174.8	2,134.2	40.66	53.484					
3,600.0	3,135.5	2,614.0	2,269.3	31.8	26.0	-124.80	71.4	1,268.2	2,247.4	2,205.3	42.11	53.371					
3,700.0	3,218.6	2,682.8	2,324.3	32.8	27.0	-124.78	70.4	1,309.6	2,319.9	2,276.4	43.55	53.265					
3,800.0	3,301.8	2,751.6	2,379.2	33.9	28.0	-124.76	69.4	1,350.9	2,392.5	2,347.5	45.00	53.165					
3,900.0	3,385.0	2,820.4	2,434.2	35.0	28.9	-124.75	68.4	1,392.3	2,465.0	2,418.6	46.45	53.071					
4,000.0	3,468.2	2,889.3	2,489.2	36.1	29.9	-124.73	67.5	1,433.7	2,537.6	2,489.7	47.89	52.983					
4,100.0	3,551.4	2,958.1	2,544.2	37.1	30.8	-124.72	66.5	1,475.1	2,610.1	2,560.8	49.34	52.898					
4,200.0	3,634.5	3,026.9	2,599.2	38.2	31.8	-124.71	65.5	1,516.4	2,682.7	2,631.9	50.79	52.819					
4,247.8	3,674.3	3,059.8	2,625.5	38.7	32.2	-124.70	65.0	1,536.2	2,717.3	2,665.9	51.48	52.782					
4,300.0	3,718.2	3,096.1	2,654.4	39.2	32.8	-126.21	64.5	1,558.0	2,754.9	2,702.4	52.49	52.487					
4,400.0	3,804.6	3,167.3	2,711.4	39.9	33.7	-128.78	63.5	1,600.8	2,824.8	2,770.6	54.29	52.034					
4,500.0	3,894.0	3,240.6	2,769.9	40.6	34.8	-130.94	62.5	1,644.9	2,892.0	2,836.0	56.06	51.589					
4,600.0	3,985.9	3,315.7	2,830.0	41.1	35.8	-132.75	61.4	1,690.1	2,956.3	2,898.5	57.78	51.167					
4,700.0	4,080.1	3,392.4	2,891.2	41.7	36.9	-134.25	60.3	1,736.2	3,017.4	2,958.0	59.42	50.782					
4,800.0	4,176.2	3,470.3	2,953.5	42.1	38.0	-135.48	59.2	1,783.0	3,075.3	3,014.3	60.96	50.445					

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
B&V - B&V 33C-07-07-95 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,900.0	4,273.7	3,549.2	3,016.5	42.4	39.1	-136.47	58.1	1,830.4	3,129.7	3,067.3	62.39	50.163			
5,000.0	4,372.4	3,628.8	3,080.1	42.7	40.2	-137.25	57.0	1,878.3	3,180.8	3,117.1	63.68	49.945			
5,100.0	4,471.9	3,708.7	3,143.9	42.9	41.3	-137.85	55.8	1,926.3	3,228.2	3,163.4	64.83	49.798			
5,200.0	4,571.9	3,788.7	3,207.8	42.9	42.4	-138.28	54.7	1,974.4	3,272.2	3,206.4	65.81	49.725			
5,211.1	4,583.0	3,797.6	3,214.9	43.0	42.5	38.97	54.6	1,979.7	3,276.9	3,210.9	65.90	49.721			
5,300.0	4,671.9	3,868.6	3,271.7	43.0	43.5	39.62	53.6	2,022.4	3,314.2	3,247.4	66.78	49.630			
5,400.0	4,771.9	3,948.5	3,335.5	43.0	44.6	40.33	52.4	2,070.5	3,356.7	3,289.0	67.73	49.558			
5,500.0	4,871.9	4,028.4	3,399.3	43.1	45.7	41.03	51.3	2,118.5	3,399.7	3,331.1	68.67	49.511			
5,600.0	4,971.9	4,108.3	3,463.2	43.1	46.9	41.71	50.2	2,166.5	3,443.3	3,373.7	69.58	49.488			
5,700.0	5,071.9	5,863.0	5,071.9	43.2	58.3	48.65	37.2	2,717.8	3,477.8	3,400.4	77.38	44.942			
5,800.0	5,171.9	5,963.0	5,171.9	43.2	58.3	48.65	37.2	2,717.8	3,477.8	3,400.3	77.49	44.881			
5,900.0	5,271.9	6,063.0	5,271.9	43.2	58.4	48.65	37.2	2,717.8	3,477.8	3,400.2	77.60	44.818			
6,000.0	5,371.9	6,163.0	5,371.9	43.3	58.4	48.65	37.2	2,717.8	3,477.8	3,400.1	77.71	44.754			
6,100.0	5,471.9	6,263.0	5,471.9	43.3	58.5	48.65	37.2	2,717.8	3,477.8	3,399.9	77.82	44.689			
6,200.0	5,571.9	6,363.0	5,571.9	43.4	58.5	48.65	37.2	2,717.8	3,477.8	3,399.8	77.94	44.623			
6,300.0	5,671.9	6,463.0	5,671.9	43.4	58.6	48.65	37.2	2,717.8	3,477.8	3,399.7	78.06	44.555			
6,400.0	5,771.9	6,563.0	5,771.9	43.5	58.6	48.65	37.2	2,717.8	3,477.8	3,399.6	78.18	44.486			
6,500.0	5,871.9	6,663.0	5,871.9	43.5	58.7	48.65	37.2	2,717.8	3,477.8	3,399.5	78.30	44.416			
6,600.0	5,971.9	6,763.0	5,971.9	43.6	58.7	48.65	37.2	2,717.8	3,477.8	3,399.3	78.42	44.345			
6,700.0	6,071.9	6,863.0	6,071.9	43.6	58.8	48.65	37.2	2,717.8	3,477.8	3,399.2	78.55	44.273			
6,800.0	6,171.9	6,963.0	6,171.9	43.7	58.8	48.65	37.2	2,717.8	3,477.8	3,399.1	78.68	44.200			
6,865.1	6,237.0	7,028.2	6,237.0	43.7	58.8	48.65	37.2	2,717.8	3,477.8	3,399.0	78.77	44.152 SF			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														B&V - B&V 33D-07-07-95 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft	
Survey Program:		0-MWD												Offset Well Error:		0.0 usft			
Reference		Offset		Semi Major Axis			Distance							Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor							
0.0	0.0	0.0	0.0	0.0	0.0	51.33	92.1	115.1	147.4										
100.0	100.0	100.0	100.0	0.1	0.1	51.33	92.1	115.1	147.4	147.2	0.19	790.259							
200.0	200.0	200.0	200.0	0.3	0.3	51.33	92.1	115.1	147.4	146.8	0.64	231.772	CC, ES						
300.0	299.9	294.1	294.0	0.5	0.5	-125.98	91.7	117.8	151.2	150.1	1.06	142.763							
400.0	399.5	387.4	387.0	0.8	0.8	-126.04	90.6	125.7	162.4	160.8	1.54	105.509							
500.0	498.3	479.2	477.8	1.1	1.0	-126.06	88.7	138.6	180.9	178.8	2.11	85.795							
600.0	596.0	568.8	565.7	1.5	1.4	-125.98	86.1	156.0	206.6	203.8	2.78	74.258							
700.0	692.3	655.6	649.7	2.0	1.8	-125.76	82.9	177.4	239.1	235.6	3.56	67.106							
800.0	786.7	739.1	729.4	2.6	2.3	-125.37	79.3	202.1	278.2	273.7	4.45	62.471							
900.0	878.9	819.0	804.3	3.3	2.8	-124.79	75.2	229.5	323.4	317.9	5.44	59.393							
1,000.0	968.5	900.0	878.9	4.1	3.4	-124.06	70.6	260.9	374.3	367.8	6.56	57.075							
1,100.0	1,055.3	966.6	938.9	5.1	4.0	-122.99	66.4	289.5	430.5	422.8	7.72	55.786							
1,163.4	1,108.7	1,009.9	977.2	5.7	4.5	-122.23	63.5	309.3	468.7	460.2	8.50	55.121							
1,200.0	1,139.2	1,034.3	998.6	6.1	4.7	-122.57	61.8	320.9	491.4	482.5	8.98	54.735							
1,300.0	1,222.4	1,100.0	1,055.3	7.1	5.4	-123.18	56.9	353.8	554.8	544.5	10.29	53.896							
1,400.0	1,305.5	1,162.2	1,107.7	8.2	6.1	-123.41	52.0	386.9	620.0	608.3	11.66	53.192							
1,500.0	1,388.7	1,222.7	1,157.5	9.3	6.9	-123.39	47.0	421.0	686.7	673.7	13.01	52.772							
1,600.0	1,471.9	1,281.8	1,204.7	10.3	7.7	-123.18	41.8	456.0	755.0	740.6	14.41	52.412							
1,700.0	1,555.1	1,352.9	1,260.9	11.4	8.7	-122.87	35.5	499.2	824.1	808.2	15.93	51.747							
1,800.0	1,638.3	1,425.2	1,318.0	12.5	9.7	-122.61	29.0	543.1	893.2	875.8	17.46	51.171							
1,900.0	1,721.4	1,497.4	1,375.0	13.5	10.7	-122.38	22.5	587.0	962.3	943.4	18.99	50.666							
2,000.0	1,804.6	1,569.6	1,432.0	14.6	11.7	-122.18	16.1	630.8	1,031.5	1,010.9	20.54	50.217							
2,100.0	1,887.8	1,641.9	1,489.0	15.7	12.7	-122.01	9.6	674.7	1,100.6	1,078.5	22.09	49.823							
2,200.0	1,971.0	1,714.1	1,546.0	16.7	13.8	-121.86	3.1	718.5	1,169.7	1,146.1	23.64	49.473							
2,300.0	2,054.1	1,786.3	1,603.1	17.8	14.8	-121.73	-3.3	762.4	1,238.8	1,213.6	25.20	49.160							
2,400.0	2,137.3	1,858.5	1,660.1	18.9	15.8	-121.61	-9.8	806.2	1,308.0	1,281.2	26.76	48.878							
2,500.0	2,220.5	1,930.8	1,717.1	20.0	16.9	-121.50	-16.3	850.1	1,377.1	1,348.8	28.32	48.625							
2,600.0	2,303.7	2,003.0	1,774.1	21.0	17.9	-121.40	-22.7	894.0	1,446.2	1,416.4	29.88	48.395							
2,700.0	2,386.9	2,075.2	1,831.2	22.1	18.9	-121.31	-29.2	937.8	1,515.4	1,483.9	31.45	48.186							
2,800.0	2,470.0	2,147.5	1,888.2	23.2	20.0	-121.23	-35.7	981.7	1,584.5	1,551.5	33.01	47.994							
2,900.0	2,553.2	2,219.7	1,945.2	24.3	21.0	-121.15	-42.2	1,025.5	1,653.7	1,619.1	34.58	47.819							
3,000.0	2,636.4	2,291.9	2,002.2	25.3	22.0	-121.08	-48.6	1,069.4	1,722.8	1,686.7	36.15	47.658							
3,100.0	2,719.6	2,364.1	2,059.3	26.4	23.1	-121.02	-55.1	1,113.2	1,792.0	1,754.2	37.72	47.509							
3,200.0	2,802.8	2,436.4	2,116.3	27.5	24.1	-120.96	-61.6	1,157.1	1,861.1	1,821.8	39.29	47.371							
3,300.0	2,885.9	2,508.6	2,173.3	28.5	25.1	-120.91	-68.0	1,200.9	1,930.3	1,889.4	40.86	47.243							
3,400.0	2,969.1	2,580.8	2,230.3	29.6	26.2	-120.86	-74.5	1,244.8	1,999.4	1,957.0	42.43	47.124							
3,500.0	3,052.3	2,653.0	2,287.3	30.7	27.2	-120.81	-81.0	1,288.7	2,068.6	2,024.6	44.00	47.013							
3,600.0	3,135.5	2,725.3	2,344.4	31.8	28.2	-120.77	-87.4	1,332.5	2,137.7	2,092.1	45.57	46.909							
3,700.0	3,218.6	2,797.5	2,401.4	32.8	29.3	-120.72	-93.9	1,376.4	2,206.9	2,159.7	47.14	46.812							
3,800.0	3,301.8	2,869.7	2,458.4	33.9	30.3	-120.69	-100.4	1,420.2	2,276.0	2,227.3	48.72	46.720							
3,900.0	3,385.0	2,942.0	2,515.4	35.0	31.3	-120.65	-106.8	1,464.1	2,345.2	2,294.9	50.29	46.634							
4,000.0	3,468.2	3,014.2	2,572.5	36.1	32.4	-120.61	-113.3	1,507.9	2,414.3	2,362.5	51.86	46.553							
4,100.0	3,551.4	3,086.4	2,629.5	37.1	33.4	-120.58	-119.8	1,551.8	2,483.5	2,430.0	53.44	46.476							
4,200.0	3,634.5	3,158.6	2,686.5	38.2	34.5	-120.55	-126.2	1,595.7	2,552.6	2,497.6	55.01	46.404							
4,247.8	3,674.3	3,193.2	2,713.8	38.7	35.0	-120.54	-129.3	1,616.6	2,585.7	2,529.9	55.76	46.371							
4,300.0	3,718.2	3,231.1	2,743.7	39.2	35.5	-121.97	-132.7	1,639.7	2,621.5	2,564.6	56.87	46.094							
4,400.0	3,804.6	3,305.3	2,802.3	39.9	36.6	-124.42	-139.4	1,684.7	2,688.2	2,629.3	58.85	45.675							
4,500.0	3,894.0	3,381.2	2,862.2	40.6	37.7	-126.49	-146.2	1,730.8	2,752.3	2,691.6	60.79	45.276							
4,600.0	3,985.9	3,458.4	2,923.2	41.1	38.8	-128.24	-153.1	1,777.7	2,813.7	2,751.1	62.66	44.907							
4,700.0	4,080.1	3,536.7	2,985.0	41.7	39.9	-129.70	-160.1	1,825.2	2,872.2	2,807.8	64.43	44.576							
4,800.0	4,176.2	3,615.8	3,047.5	42.1	41.0	-130.90	-167.2	1,873.3	2,927.7	2,861.6	66.10	44.291							

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

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		B&V - B&V 33D-07-07-95 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,273.7	3,695.5	3,110.3	42.4	42.2	-131.87	-174.3	1,921.6	2,980.1	2,912.5	67.64	44.057			
5,000.0	4,372.4	3,775.3	3,173.3	42.7	43.3	-132.64	-181.5	1,970.1	3,029.3	2,960.3	69.04	43.880			
5,100.0	4,471.9	3,855.0	3,236.3	42.9	44.5	-133.23	-188.6	2,018.5	3,075.4	3,005.1	70.27	43.765			
5,200.0	4,571.9	3,934.3	3,298.9	42.9	45.6	-133.66	-195.7	2,066.6	3,118.2	3,046.9	71.33	43.716			
5,211.1	4,583.0	3,943.1	3,305.8	43.0	45.7	43.59	-196.5	2,072.0	3,122.8	3,051.4	71.44	43.715			
5,300.0	4,671.9	4,013.3	3,361.2	43.0	46.7	44.29	-202.8	2,114.6	3,159.4	3,087.1	72.32	43.686			
5,400.0	4,771.9	4,092.2	3,423.5	43.0	47.9	45.07	-209.8	2,162.5	3,201.2	3,127.9	73.29	43.681			
5,500.0	4,871.9	4,171.2	3,485.9	43.1	49.0	45.83	-216.9	2,210.5	3,243.6	3,169.4	74.23	43.699			
5,600.0	4,971.9	5,794.0	4,971.9	43.1	59.7	53.06	-292.6	2,723.9	3,274.2	3,192.7	81.51	40.169			
5,700.0	5,071.9	5,894.0	5,071.9	43.2	59.7	53.06	-292.6	2,723.9	3,274.2	3,192.6	81.61	40.121			
5,800.0	5,171.9	5,994.0	5,171.9	43.2	59.8	53.06	-292.6	2,723.9	3,274.2	3,192.5	81.71	40.072			
5,900.0	5,271.9	6,094.0	5,271.9	43.2	59.8	53.06	-292.6	2,723.9	3,274.2	3,192.4	81.81	40.022			
6,000.0	5,371.9	6,194.0	5,371.9	43.3	59.9	53.06	-292.6	2,723.9	3,274.2	3,192.3	81.91	39.971			
6,100.0	5,471.9	6,294.0	5,471.9	43.3	59.9	53.06	-292.6	2,723.9	3,274.2	3,192.2	82.02	39.919			
6,200.0	5,571.9	6,394.0	5,571.9	43.4	60.0	53.06	-292.6	2,723.9	3,274.2	3,192.1	82.13	39.866			
6,300.0	5,671.9	6,494.0	5,671.9	43.4	60.0	53.06	-292.6	2,723.9	3,274.2	3,192.0	82.24	39.812			
6,400.0	5,771.9	6,594.0	5,771.9	43.5	60.1	53.06	-292.6	2,723.9	3,274.2	3,191.8	82.36	39.757			
6,500.0	5,871.9	6,694.0	5,871.9	43.5	60.1	53.06	-292.6	2,723.9	3,274.2	3,191.7	82.47	39.701			
6,600.0	5,971.9	6,794.0	5,971.9	43.6	60.1	53.06	-292.6	2,723.9	3,274.2	3,191.6	82.59	39.644			
6,700.0	6,071.9	6,894.0	6,071.9	43.6	60.2	53.06	-292.6	2,723.9	3,274.2	3,191.5	82.71	39.586			
6,800.0	6,171.9	6,994.0	6,171.9	43.7	60.2	53.06	-292.6	2,723.9	3,274.2	3,191.4	82.83	39.528			
6,865.1	6,237.0	7,059.1	6,237.0	43.7	60.3	53.06	-292.6	2,723.9	3,274.2	3,191.3	82.91	39.489 SF			

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	51.33	7.8	9.8	13.1						
100.0	100.0	96.0	96.0	0.1	0.1	51.33	7.8	9.8	12.5	12.3	0.19	66.762			
200.0	200.0	196.0	196.0	0.3	0.3	51.33	7.8	9.8	12.5	11.9	0.63	19.782 CC, ES			
300.0	299.9	295.9	295.9	0.5	0.5	-135.72	7.8	9.8	14.5	13.4	1.07	13.532 SF			
400.0	399.5	395.5	395.5	0.8	0.8	-152.46	7.8	9.8	22.0	20.5	1.54	14.306			
500.0	498.3	496.3	496.2	1.1	1.0	-164.93	5.3	8.4	33.5	31.5	1.98	16.909			
600.0	596.0	597.5	597.0	1.5	1.2	-175.05	-2.7	4.1	46.2	43.8	2.41	19.218			
700.0	692.3	699.0	697.3	2.0	1.4	176.19	-16.1	-3.2	60.6	57.7	2.88	21.044			
800.0	786.7	800.6	796.6	2.6	1.8	168.51	-35.1	-13.5	77.1	73.7	3.48	22.193			
900.0	878.9	902.1	894.2	3.3	2.3	161.78	-59.4	-26.6	96.1	91.8	4.26	22.532			
1,000.0	968.5	1,003.4	989.8	4.1	2.9	155.88	-88.9	-42.6	117.6	112.3	5.29	22.217			
1,100.0	1,055.3	1,104.4	1,082.9	5.1	3.6	150.69	-123.4	-61.3	141.8	135.2	6.58	21.547			
1,163.4	1,108.7	1,168.2	1,140.3	5.7	4.1	147.72	-147.8	-74.6	158.6	151.0	7.54	21.036			
1,200.0	1,139.2	1,205.0	1,173.0	6.1	4.4	146.23	-162.7	-82.7	168.4	160.3	8.14	20.694			
1,300.0	1,222.4	1,305.7	1,260.2	7.1	5.3	141.78	-206.9	-106.6	194.0	184.0	10.00	19.401			
1,400.0	1,305.5	1,406.0	1,343.9	8.2	6.4	136.88	-255.5	-133.0	218.4	206.2	12.14	17.993			
1,500.0	1,388.7	1,502.3	1,421.8	9.3	7.4	132.20	-305.2	-159.8	242.7	228.3	14.40	16.857			
1,600.0	1,471.9	1,597.5	1,498.9	10.3	8.5	128.37	-354.4	-186.5	268.3	251.6	16.65	16.111			
1,700.0	1,555.1	1,692.7	1,575.9	11.4	9.6	125.20	-403.6	-213.2	294.8	275.9	18.89	15.605			
1,800.0	1,638.3	1,787.9	1,652.9	12.5	10.6	122.55	-452.8	-239.8	322.1	301.0	21.12	15.253			
1,900.0	1,721.4	1,883.1	1,729.9	13.5	11.7	120.31	-502.0	-266.5	349.9	326.6	23.32	15.004			
2,000.0	1,804.6	1,978.3	1,807.0	14.6	12.8	118.40	-551.2	-293.2	378.1	352.6	25.51	14.824			
2,100.0	1,887.8	2,073.5	1,884.0	15.7	13.9	116.75	-600.4	-319.8	406.7	379.0	27.68	14.692			
2,200.0	1,971.0	2,168.7	1,961.0	16.7	15.0	115.32	-649.6	-346.5	435.5	405.7	29.84	14.595			
2,300.0	2,054.1	2,264.0	2,038.0	17.8	16.1	114.06	-698.8	-373.2	464.6	432.6	31.99	14.523			
2,400.0	2,137.3	2,359.2	2,115.1	18.9	17.1	112.95	-748.0	-399.8	493.9	459.7	34.13	14.469			
2,500.0	2,220.5	2,454.4	2,192.1	20.0	18.2	111.97	-797.2	-426.5	523.3	487.0	36.26	14.429			
2,600.0	2,303.7	2,549.6	2,269.1	21.0	19.3	111.09	-846.4	-453.2	552.8	514.4	38.39	14.400			
2,700.0	2,386.9	2,644.8	2,346.1	22.1	20.4	110.29	-895.6	-479.8	582.4	541.9	40.51	14.378			
2,800.0	2,470.0	2,740.0	2,423.1	23.2	21.5	109.58	-944.9	-506.5	612.1	569.5	42.62	14.362			
2,900.0	2,553.2	2,835.2	2,500.2	24.3	22.6	108.93	-994.1	-533.2	642.0	597.2	44.73	14.351			
3,000.0	2,636.4	2,930.4	2,577.2	25.3	23.7	108.33	-1,043.3	-559.8	671.8	625.0	46.84	14.344			
3,100.0	2,719.6	3,025.6	2,654.2	26.4	24.8	107.79	-1,092.5	-586.5	701.8	652.8	48.94	14.340			
3,200.0	2,802.8	3,120.9	2,731.2	27.5	25.9	107.29	-1,141.7	-613.2	731.8	680.7	51.04	14.338			
3,300.0	2,885.9	3,216.1	2,808.3	28.5	27.0	106.83	-1,190.9	-639.8	761.8	708.7	53.13	14.337			
3,400.0	2,969.1	3,311.3	2,885.3	29.6	28.1	106.41	-1,240.1	-666.5	791.9	736.6	55.23	14.338			
3,500.0	3,052.3	3,406.5	2,962.3	30.7	29.2	106.02	-1,289.3	-693.2	822.0	764.7	57.32	14.341			
3,600.0	3,135.5	3,501.7	3,039.3	31.8	30.3	105.65	-1,338.5	-719.8	852.1	792.7	59.41	14.344			
3,700.0	3,218.6	3,596.9	3,116.4	32.8	31.4	105.31	-1,387.7	-746.5	882.3	820.8	61.50	14.347			
3,800.0	3,301.8	3,692.1	3,193.4	33.9	32.4	104.99	-1,436.9	-773.2	912.5	848.9	63.58	14.352			
3,900.0	3,385.0	3,787.3	3,270.4	35.0	33.5	104.69	-1,486.1	-799.8	942.7	877.1	65.67	14.356			
4,000.0	3,468.2	3,882.5	3,347.4	36.1	34.6	104.41	-1,535.3	-826.5	973.0	905.2	67.75	14.361			
4,100.0	3,551.4	3,977.8	3,424.5	37.1	35.7	104.15	-1,584.6	-853.2	1,003.2	933.4	69.83	14.366			
4,200.0	3,634.5	4,073.0	3,501.5	38.2	36.8	103.91	-1,633.8	-879.8	1,033.5	961.6	71.91	14.372			
4,247.8	3,674.3	4,118.5	3,538.3	38.7	37.4	103.79	-1,657.3	-892.6	1,048.0	975.1	72.91	14.374			
4,300.0	3,718.2	4,168.2	3,578.5	39.2	37.9	104.18	-1,683.0	-906.5	1,063.6	989.7	73.98	14.377			
4,400.0	3,804.6	4,263.4	3,655.5	39.9	39.0	104.66	-1,732.2	-933.2	1,092.5	1,016.7	75.86	14.401			
4,500.0	3,894.0	4,358.3	3,732.3	40.6	40.1	104.80	-1,781.2	-959.7	1,120.1	1,042.4	77.67	14.421			
4,600.0	3,985.9	4,453.4	3,809.3	41.1	41.2	104.65	-1,830.4	-986.4	1,146.5	1,067.1	79.40	14.439			
4,700.0	4,080.1	4,569.7	3,905.9	41.7	42.2	104.11	-1,887.2	-1,017.2	1,170.8	1,089.9	80.96	14.462			
4,800.0	4,176.2	4,689.6	4,010.1	42.1	43.1	103.53	-1,939.3	-1,045.4	1,192.3	1,110.0	82.29	14.488			

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

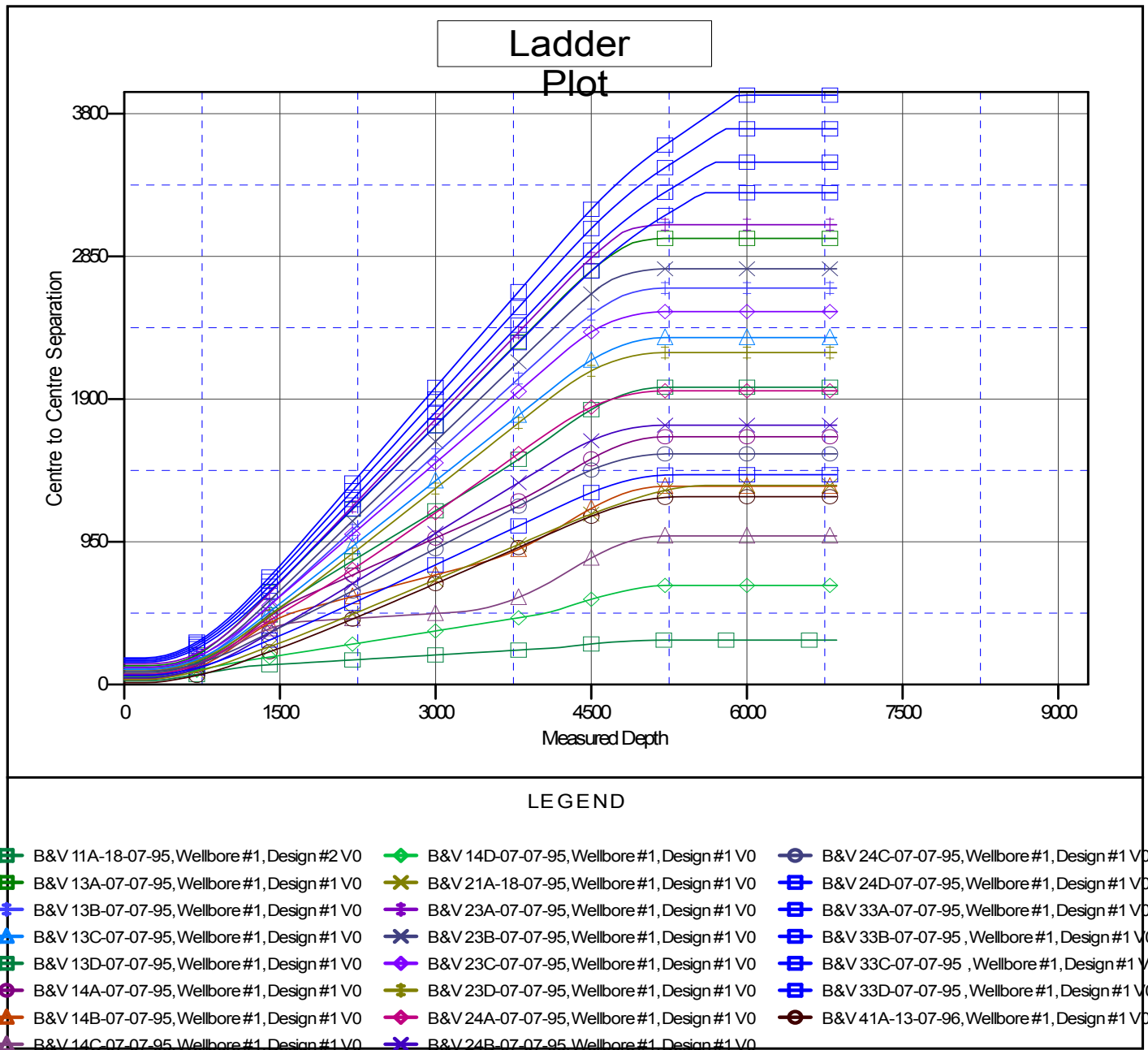
<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												B&V - B&V 41A-13-07-96 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft	
Survey Program: 0-MWD														Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
4,900.0	4,273.7	4,813.2	4,121.8	42.4	43.9	102.93	-1,985.9	-1,070.6	1,210.6	1,127.2	83.43	14.510					
5,000.0	4,372.4	4,940.3	4,240.4	42.7	44.6	102.29	-2,025.9	-1,092.3	1,225.6	1,141.2	84.35	14.529					
5,100.0	4,471.9	5,070.6	4,365.3	42.9	45.1	101.62	-2,058.4	-1,109.9	1,237.1	1,152.0	85.05	14.545					
5,200.0	4,571.9	5,203.8	4,495.6	42.9	45.6	100.92	-2,082.5	-1,123.0	1,244.9	1,159.4	85.51	14.558					
5,211.1	4,583.0	5,218.8	4,510.4	43.0	45.6	-81.87	-2,084.6	-1,124.1	1,245.5	1,160.0	85.54	14.560					
5,300.0	4,671.9	5,339.8	4,630.5	43.0	45.9	-82.50	-2,097.4	-1,131.1	1,249.3	1,163.6	85.75	14.570					
5,400.0	4,771.9	5,477.3	4,767.8	43.0	46.0	-82.74	-2,102.4	-1,133.8	1,250.8	1,164.9	85.90	14.562					
5,500.0	4,871.9	5,577.3	4,867.8	43.1	46.1	-82.74	-2,102.4	-1,133.8	1,250.8	1,164.8	85.98	14.548					
5,600.0	4,971.9	5,677.3	4,967.8	43.1	46.1	-82.74	-2,102.4	-1,133.8	1,250.8	1,164.8	86.06	14.534					
5,700.0	5,071.9	5,777.3	5,067.8	43.2	46.1	-82.74	-2,102.4	-1,133.8	1,250.8	1,164.7	86.14	14.520					
5,800.0	5,171.9	5,877.3	5,167.8	43.2	46.2	-82.74	-2,102.4	-1,133.8	1,250.8	1,164.6	86.23	14.506					
5,900.0	5,271.9	5,977.3	5,267.8	43.2	46.2	-82.74	-2,102.4	-1,133.8	1,250.8	1,164.5	86.32	14.491					
6,000.0	5,371.9	6,077.3	5,367.8	43.3	46.3	-82.74	-2,102.4	-1,133.8	1,250.8	1,164.4	86.41	14.476					
6,100.0	5,471.9	6,177.3	5,467.8	43.3	46.3	-82.74	-2,102.4	-1,133.8	1,250.8	1,164.3	86.50	14.460					
6,200.0	5,571.9	6,277.3	5,567.8	43.4	46.4	-82.74	-2,102.4	-1,133.8	1,250.8	1,164.2	86.59	14.445					
6,300.0	5,671.9	6,377.3	5,667.8	43.4	46.4	-82.74	-2,102.4	-1,133.8	1,250.8	1,164.1	86.69	14.428					
6,400.0	5,771.9	6,477.3	5,767.8	43.5	46.5	-82.74	-2,102.4	-1,133.8	1,250.8	1,164.0	86.79	14.412					
6,500.0	5,871.9	6,577.3	5,867.8	43.5	46.5	-82.74	-2,102.4	-1,133.8	1,250.8	1,163.9	86.89	14.395					
6,600.0	5,971.9	6,677.3	5,967.8	43.6	46.6	-82.74	-2,102.4	-1,133.8	1,250.8	1,163.8	87.00	14.378					
6,700.0	6,071.9	6,777.3	6,067.8	43.6	46.6	-82.74	-2,102.4	-1,133.8	1,250.8	1,163.7	87.10	14.360					
6,800.0	6,171.9	6,877.3	6,167.8	43.7	46.7	-82.74	-2,102.4	-1,133.8	1,250.8	1,163.6	87.21	14.343					
6,833.1	6,205.0	6,910.4	6,201.0	43.7	46.7	-82.74	-2,102.4	-1,133.8	1,250.8	1,163.6	87.24	14.337					
6,865.1	6,237.0	6,921.4	6,212.0	43.7	46.7	-82.74	-2,102.4	-1,133.8	1,251.0	1,163.7	87.26	14.336					

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to B&V 11B-18-07-95 TGT @ 5101.0usft  
Offset Depths are relative to Offset Datum  
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: B&V 11B-18-07-95  
Coordinate System is US State Plane 1983, Colorado Central Zone  
Grid Convergence at Surface is: -1.61°





<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well B&V 11B-18-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Reference Site:</b>	B&V	<b>MD Reference:</b>	B&V 11B-18-07-95 TGT @ 5101.0usft (Capstar 321)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	B&V 11B-18-07-95	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to B&V 11B-18-07-95 TGT @ 5101.0usft  
Offset Depths are relative to Offset Datum  
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: B&V 11B-18-07-95  
Coordinate System is US State Plane 1983, Colorado Central Zone  
Grid Convergence at Surface is: -1.61°

