



# **Ursa Operating Company, LLC**

**Rockies Region**

**Frei A**

**Frei A20**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**06 August, 2013**



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Project:</b>	Rockies Region	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site:</b>	Frei A	<b>North Reference:</b>	True
<b>Well:</b>	Frei A20	<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		Frei A			
Site Position: From:	Lat/Long	Northing:	1,626,942.75 ft	Latitude:	39° 32' 9.196 N
		Easting:	2,406,826.15 ft	Longitude:	107° 36' 12.020 W
		Position Uncertainty:	0.0 ft	Slot Radius:	"

Well	Frei A20, SHL LAT: 39.536057500 LONG: -107.603306200					
Well Position	+N/-S	61.8 ft	Northing:	1,627,004.32 ft	Latitude:	39° 32' 9.807 N
	+E/-W	9.2 ft	Easting:	2,406,836.80 ft	Longitude:	107° 36' 11.902 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,611.9 ft	Ground Level:	5,596.5 ft

<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>
	IGRF200510	8/6/2013	9.87	65.80	52,148

<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)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	312.32

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,821.4	45.64	312.32	1,665.5	386.8	-424.8	3.00	3.00	0.00	312.32	
3,208.8	45.64	312.32	2,635.5	1,054.7	-1,158.3	0.00	0.00	0.00	0.00	
4,730.1	0.00	0.00	4,001.0	1,441.5	-1,583.1	3.00	-3.00	0.00	180.00	Frei A20 TGT
7,554.1	0.00	0.00	6,825.0	1,441.5	-1,583.1	0.00	0.00	0.00	0.00	

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Project:</b>	Rockies Region	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site:</b>	Frei A	<b>North Reference:</b>	True
<b>Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 3.00									
400.0	3.00	312.32	400.0	1.8	-1.9	2.6	3.00	3.00	0.00
500.0	6.00	312.32	499.6	7.0	-7.7	10.5	3.00	3.00	0.00
600.0	9.00	312.32	598.8	15.8	-17.4	23.5	3.00	3.00	0.00
700.0	12.00	312.32	697.1	28.1	-30.9	41.7	3.00	3.00	0.00
800.0	15.00	312.32	794.3	43.8	-48.1	65.1	3.00	3.00	0.00
900.0	18.00	312.32	890.2	62.9	-69.1	93.5	3.00	3.00	0.00
1,000.0	21.00	312.32	984.4	85.4	-93.8	126.9	3.00	3.00	0.00
1,100.0	24.00	312.32	1,076.8	111.2	-122.1	165.1	3.00	3.00	0.00
1,200.0	27.00	312.32	1,167.1	140.1	-153.9	208.2	3.00	3.00	0.00
1,300.0	30.00	312.32	1,254.9	172.3	-189.2	255.9	3.00	3.00	0.00
1,400.0	33.00	312.32	1,340.2	207.4	-227.8	308.1	3.00	3.00	0.00
1,500.0	36.00	312.32	1,422.6	245.6	-269.7	364.7	3.00	3.00	0.00
1,600.0	39.00	312.32	1,501.9	286.6	-314.7	425.6	3.00	3.00	0.00
1,700.0	42.00	312.32	1,577.9	330.3	-362.7	490.6	3.00	3.00	0.00
1,800.0	45.00	312.32	1,650.5	376.6	-413.6	559.4	3.00	3.00	0.00
1,821.4	45.64	312.32	1,665.5	386.8	-424.8	574.6	3.00	3.00	0.00
Start 1387.4 hold at 1821.4 MD									
1,900.0	45.64	312.32	1,720.5	424.7	-466.4	630.8	0.00	0.00	0.00
2,000.0	45.64	312.32	1,790.4	472.8	-519.3	702.3	0.00	0.00	0.00
2,100.0	45.64	312.32	1,860.3	521.0	-572.1	773.8	0.00	0.00	0.00
2,200.0	45.64	312.32	1,930.2	569.1	-625.0	845.3	0.00	0.00	0.00
2,300.0	45.64	312.32	2,000.1	617.2	-677.9	916.8	0.00	0.00	0.00
2,400.0	45.64	312.32	2,070.1	665.4	-730.7	988.3	0.00	0.00	0.00
2,500.0	45.64	312.32	2,140.0	713.5	-783.6	1,059.8	0.00	0.00	0.00
2,600.0	45.64	312.32	2,209.9	761.6	-836.5	1,131.3	0.00	0.00	0.00
2,700.0	45.64	312.32	2,279.8	809.8	-889.3	1,202.8	0.00	0.00	0.00
2,800.0	45.64	312.32	2,349.7	857.9	-942.2	1,274.3	0.00	0.00	0.00
2,900.0	45.64	312.32	2,419.6	906.1	-995.1	1,345.8	0.00	0.00	0.00
3,000.0	45.64	312.32	2,489.5	954.2	-1,047.9	1,417.3	0.00	0.00	0.00
3,100.0	45.64	312.32	2,559.5	1,002.3	-1,100.8	1,488.8	0.00	0.00	0.00
3,208.8	45.64	312.32	2,635.5	1,054.7	-1,158.3	1,566.5	0.00	0.00	0.00
Start Drop -3.00									
3,300.0	42.90	312.32	2,700.8	1,097.6	-1,205.4	1,630.2	3.00	-3.00	0.00
3,400.0	39.90	312.32	2,775.8	1,142.1	-1,254.3	1,696.3	3.00	-3.00	0.00
3,484.6	37.37	312.32	2,841.9	1,177.6	-1,293.3	1,749.2	3.00	-3.00	0.00
WF									
3,500.0	36.90	312.32	2,854.2	1,183.9	-1,300.2	1,758.5	3.00	-3.00	0.00
3,600.0	33.90	312.32	2,935.7	1,222.9	-1,343.0	1,816.4	3.00	-3.00	0.00
3,700.0	30.90	312.32	3,020.1	1,259.0	-1,382.7	1,870.0	3.00	-3.00	0.00
3,800.0	27.90	312.32	3,107.2	1,292.0	-1,419.0	1,919.1	3.00	-3.00	0.00
3,900.0	24.90	312.32	3,196.8	1,322.0	-1,451.8	1,963.5	3.00	-3.00	0.00
4,000.0	21.90	312.32	3,288.5	1,348.7	-1,481.2	2,003.2	3.00	-3.00	0.00
4,100.0	18.90	312.32	3,382.2	1,372.2	-1,507.0	2,038.1	3.00	-3.00	0.00
4,200.0	15.90	312.32	3,477.7	1,392.3	-1,529.1	2,068.0	3.00	-3.00	0.00
4,300.0	12.90	312.32	3,574.5	1,409.0	-1,547.5	2,092.9	3.00	-3.00	0.00
4,400.0	9.90	312.32	3,672.5	1,422.4	-1,562.1	2,112.6	3.00	-3.00	0.00
4,500.0	6.90	312.32	3,771.4	1,432.2	-1,572.9	2,127.3	3.00	-3.00	0.00
4,600.0	3.90	312.32	3,871.0	1,438.5	-1,579.9	2,136.7	3.00	-3.00	0.00
4,700.0	0.90	312.32	3,970.9	1,441.4	-1,583.0	2,140.9	3.00	-3.00	0.00

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<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Project:</b>	Rockies Region	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site:</b>	Frei A	<b>North Reference:</b>	True
<b>Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,730.0	0.00	312.32	4,000.9	1,441.5	-1,583.1	2,141.1	3.00	-3.00	0.00
<b>Top of Gas</b>									
4,730.1	0.00	0.00	4,001.0	1,441.5	-1,583.1	2,141.1	3.00	-3.00	0.00
<b>Start 2824.0 hold at 4730.1 MD</b>									
4,800.0	0.00	0.00	4,070.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
4,900.0	0.00	0.00	4,170.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
5,000.0	0.00	0.00	4,270.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
5,100.0	0.00	0.00	4,370.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
5,200.0	0.00	0.00	4,470.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
5,300.0	0.00	0.00	4,570.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
5,400.0	0.00	0.00	4,670.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
5,500.0	0.00	0.00	4,770.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
5,600.0	0.00	0.00	4,870.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
5,700.0	0.00	0.00	4,970.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,070.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,170.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,270.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
6,079.0	0.00	0.00	5,349.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
<b>Cameo</b>									
6,100.0	0.00	0.00	5,370.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
6,200.0	0.00	0.00	5,470.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
6,300.0	0.00	0.00	5,570.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
6,400.0	0.00	0.00	5,670.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
6,500.0	0.00	0.00	5,770.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
6,600.0	0.00	0.00	5,870.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
6,700.0	0.00	0.00	5,970.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,070.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,170.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,270.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
7,100.0	0.00	0.00	6,370.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
7,200.0	0.00	0.00	6,470.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
7,254.0	0.00	0.00	6,524.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
<b>Rollins</b>									
7,300.0	0.00	0.00	6,570.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
7,400.0	0.00	0.00	6,670.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
7,500.0	0.00	0.00	6,770.9	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
7,554.1	0.00	0.00	6,825.0	1,441.5	-1,583.1	2,141.1	0.00	0.00	0.00
<b>TD at 7554.1</b>									

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,484.6	2,841.9	WF		0.00	
4,730.0	4,000.9	Top of Gas		0.00	
6,079.0	5,349.9	Cameo		0.00	
7,254.0	6,524.9	Rollins		0.00	

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Project:</b>	Rockies Region	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site:</b>	Frei A	<b>North Reference:</b>	True
<b>Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	0.0	Start Build 3.00
1,821.4	1,665.5	386.8	-424.8	Start 1387.4 hold at 1821.4 MD
3,208.8	2,635.5	1,054.7	-1,158.3	Start Drop -3.00
4,730.1	4,001.0	1,441.5	-1,583.1	Start 2824.0 hold at 4730.1 MD
7,554.1	6,825.0	1,441.5	-1,583.1	TD at 7554.1



Well Name: Frei A20  
Surface Location: Frei A  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 5596.5  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.0 0.0 1627004.32 2406836.80 39° 32' 9.807 N 107° 36' 11.902 W  
PAD KB ELEV Frei A20 @ 5611.9ft (PAD KB ELEV)



Azimuths to True North  
Magnetic North: 9.87°  
Magnetic Field  
Strength: 52148.3snT  
Dip Angle: 65.80°  
Date: 8/6/2013  
Model: IGRF200510

Frei A  
Frei A20  
Design #1  
20:11, August 06 2013

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Frei A20 TGT	4001.0	1441.5	-1583.1	1628482.10	2405287.46	39° 32' 24.054 N	107° 36' 32.111 W	Point

#### SECTION DETAILS

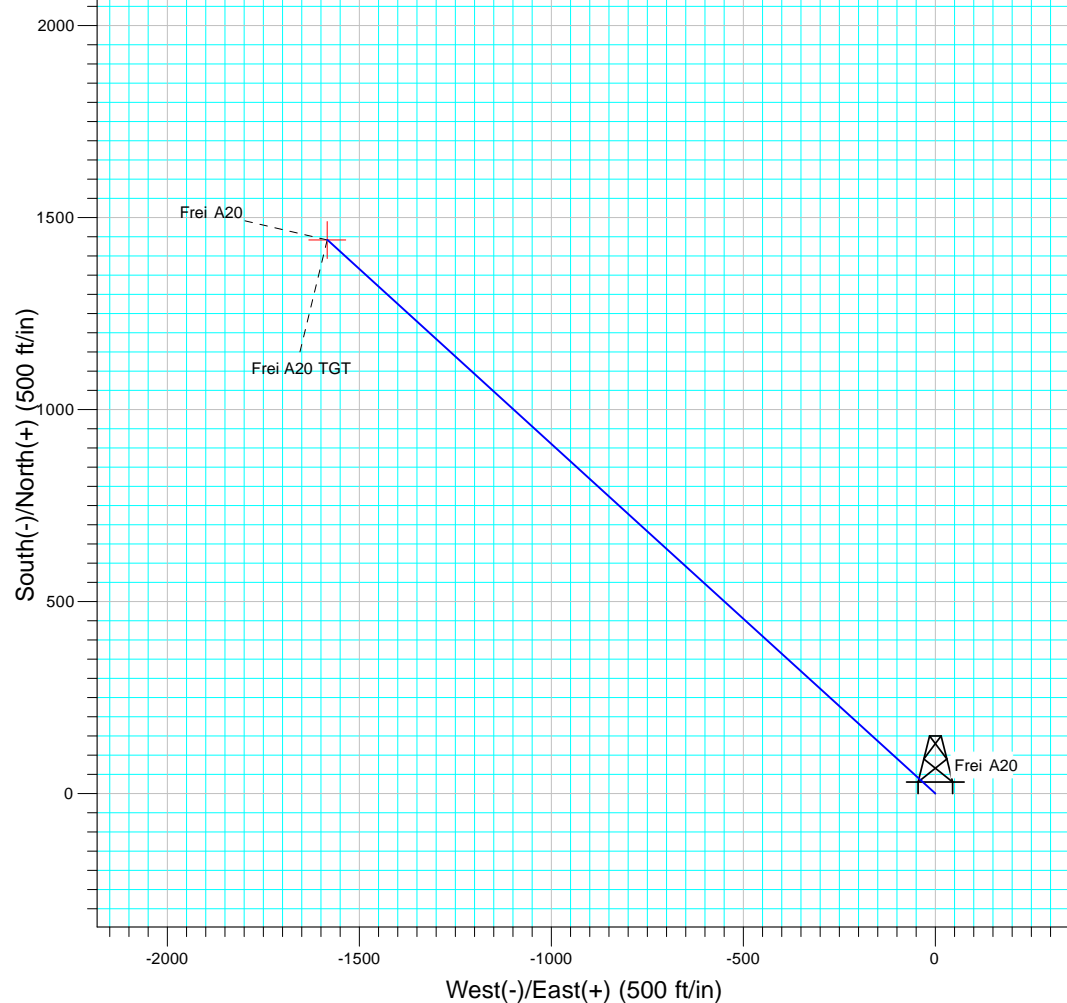
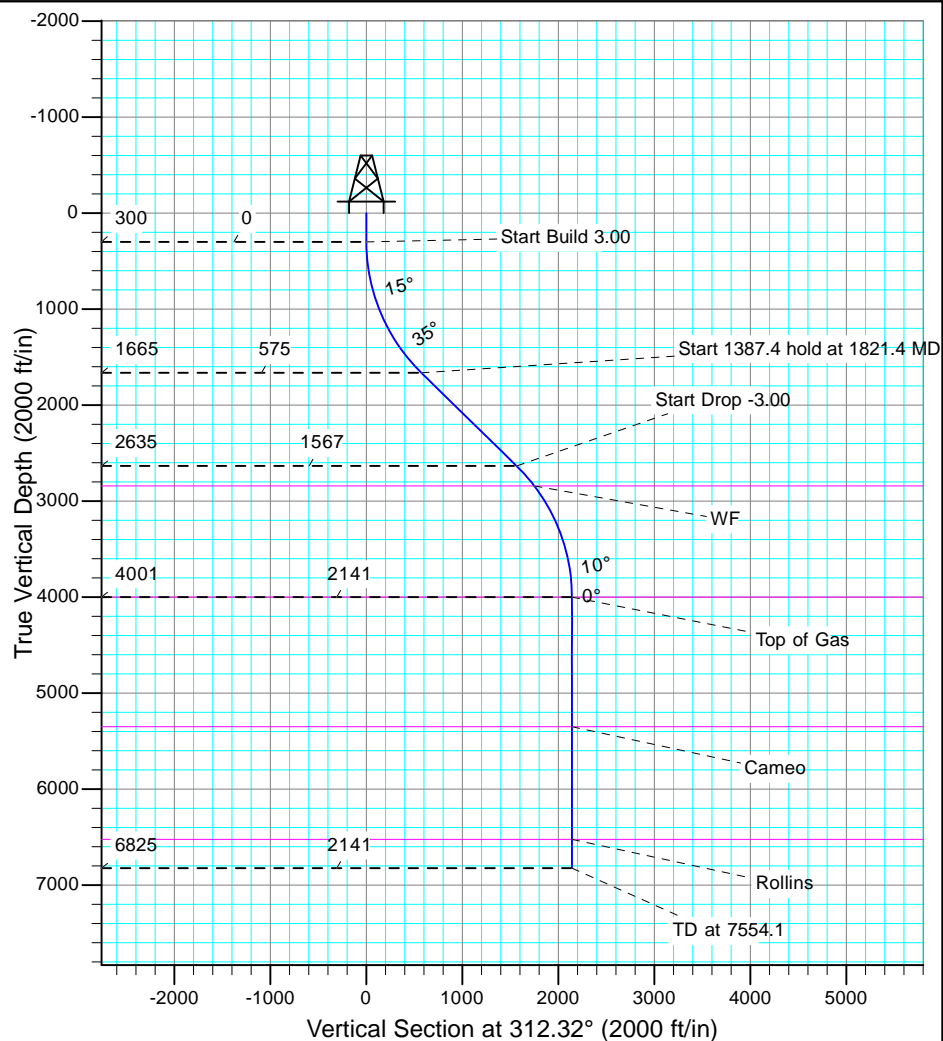
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	1821.4	45.64	312.32	1665.5	386.8	-424.8	3.00	312.32	574.6	
4	3208.8	45.64	312.32	2635.5	1054.7	-1158.3	0.00	0.00	1566.5	
5	4730.1	0.00	0.00	4001.0	1441.5	-1583.1	3.00	180.00	2141.1	Frei A20 TGT
6	7554.1	0.00	0.00	6825.0	1441.5	-1583.1	0.00	0.00	2141.1	

#### ANNOTATIONS

TVD	MD	Annotation
300.0	300.0	Start Build 3.00
1665.5	1821.4	Start 1387.4 hold at 1821.4 MD
2635.5	3208.8	Start Drop -3.00
4001.0	4730.1	Start 2824.0 hold at 4730.1 MD
6825.0	7554.1	TD at 7554.1

#### FORMATION TOP DETAILS

TVDP	MD	Path	Formation
2841.9	3484.6	WF	WF
4000.9	4730.0		Top of Gas
5349.9	6079.0		Cameo
6524.9	7254.0		Rollins





# **Ursa Operating Company, LLC**

**Rockies Region**

**Frei A**

**Frei A20**

**Wellbore #1**

**Design #1**

## **Anticollision Report**

**06 August, 2013**



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	8/6/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	7,554.1	Design #1 (Wellbore #1)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Frei A						
Frei A1 - Wellbore #1 - Design #1	300.0	300.0	62.5	61.4	57.378	CC, ES
Frei A1 - Wellbore #1 - Design #1	600.0	589.3	93.6	91.1	37.127	SF
Frei A10 - Wellbore #1 - Design #1	300.0	300.0	25.0	23.9	22.925	CC, ES
Frei A10 - Wellbore #1 - Design #1	500.0	496.8	31.3	29.3	15.613	SF
Frei A11 - Wellbore #1 - Actual	0.0	0.0	25.7			
Frei A11 - Wellbore #1 - Actual	3,100.0	2,292.4	1,710.7	1,680.9	57.534	SF
Frei A12 - Wellbore #1 - Design #1	300.0	300.0	37.5	36.4	34.423	CC, ES
Frei A12 - Wellbore #1 - Design #1	600.0	592.0	53.2	50.6	21.058	SF
Frei A14 - Wellbore #1 - Design #1	300.0	300.0	25.0	23.9	22.958	CC, ES
Frei A14 - Wellbore #1 - Design #1	1,700.0	1,690.9	168.7	148.1	8.186	SF
Frei A16 - Wellbore #1 - Actual	0.0	0.0	43.7			
Frei A16 - Wellbore #1 - Actual	3,208.8	2,425.3	1,710.1	1,677.2	52.027	SF
Frei A18 - Wellbore #1 - Design #1	300.0	300.0	12.5	11.4	11.465	CC
Frei A18 - Wellbore #1 - Design #1	400.0	399.6	12.7	11.2	8.261	ES
Frei A18 - Wellbore #1 - Design #1	2,000.0	1,990.6	81.7	51.4	2.699	SF
Frei A19 - Wellbore #1 - Design #1	300.0	300.0	12.5	11.4	11.494	CC
Frei A19 - Wellbore #1 - Design #1	400.0	400.3	12.8	11.3	8.341	ES
Frei A19 - Wellbore #1 - Design #1	1,700.0	1,700.8	75.9	54.6	3.563	SF
Frei A2 - Wellbore #1 - Design #1	300.0	300.0	75.0	73.9	68.842	CC, ES
Frei A2 - Wellbore #1 - Design #1	600.0	586.5	108.0	105.5	43.017	SF
Frei A21 - Wellbore #1 - Actual	317.5	317.8	32.3	31.8	55.364	CC, ES
Frei A21 - Wellbore #1 - Actual	500.0	500.0	41.0	40.0	41.173	SF
Frei A23 - Wellbore #1 - Design #1	300.0	300.0	37.5	36.4	34.419	CC, ES
Frei A23 - Wellbore #1 - Design #1	1,700.0	1,671.9	262.1	242.4	13.299	SF
Frei A24 - Wellbore #1 - Design #1	300.0	300.0	50.0	48.9	45.921	CC, ES
Frei A24 - Wellbore #1 - Design #1	7,554.1	7,190.1	1,387.8	1,314.8	19.025	SF
Frei A3 - Wellbore #1 - Design #1	300.0	300.0	87.5	86.4	80.303	CC, ES
Frei A3 - Wellbore #1 - Design #1	600.0	583.8	121.7	119.2	48.721	SF
Frei A4 - Wellbore #1 - Design #1	300.0	300.0	100.0	98.9	91.801	CC, ES
Frei A4 - Wellbore #1 - Design #1	600.0	581.8	134.4	132.0	53.964	SF
Frei A9 - Wellbore #1 - Actual	0.0	0.0	25.7			
Frei A9 - Wellbore #1 - Actual	400.0	398.9	33.1	32.3	43.045	SF



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-171.51	-61.8	-9.2	62.5						
100.0	100.0	100.0	100.0	0.1	0.1	-171.51	-61.8	-9.2	62.5	62.3	0.19	328.666			
200.0	200.0	200.0	200.0	0.3	0.3	-171.51	-61.8	-9.2	62.5	61.9	0.64	97.699			
300.0	300.0	300.0	300.0	0.5	0.5	-171.51	-61.8	-9.2	62.5	61.4	1.09	57.378	CC, ES		
400.0	400.0	398.5	398.4	0.8	0.8	-127.71	-63.1	-7.1	65.1	63.6	1.52	42.719			
500.0	499.6	495.4	495.0	1.0	1.0	-137.33	-67.0	-0.7	74.5	72.5	2.00	37.347			
600.0	598.8	589.3	588.2	1.3	1.2	-148.22	-73.2	9.4	93.6	91.1	2.52	37.127	SF		
700.0	697.1	678.9	676.4	1.6	1.5	-157.17	-81.4	22.7	123.6	120.6	3.06	40.433			
800.0	794.3	763.2	758.6	2.0	1.9	-163.56	-91.0	38.4	164.1	160.5	3.58	45.870			
900.0	890.2	841.3	834.1	2.6	2.2	-167.94	-101.6	55.8	214.0	210.0	4.08	52.508			
1,000.0	984.4	913.0	902.5	3.2	2.6	-170.96	-112.7	74.0	272.2	267.7	4.55	59.806			
1,100.0	1,076.8	977.7	963.6	3.9	3.1	-173.08	-123.9	92.3	337.7	332.7	5.01	67.387			
1,200.0	1,167.1	1,035.6	1,017.6	4.8	3.5	-174.61	-134.9	110.1	409.5	404.0	5.47	74.924			
1,300.0	1,254.9	1,098.5	1,075.8	5.7	3.9	-175.99	-147.3	130.4	486.1	480.2	5.89	82.463			
1,400.0	1,340.2	1,158.1	1,131.0	6.8	4.4	-177.04	-159.0	149.6	566.1	559.8	6.30	89.815			
1,500.0	1,422.6	1,213.4	1,182.2	8.0	4.8	-177.86	-169.9	167.4	649.2	642.5	6.70	96.829			
1,600.0	1,501.9	1,264.3	1,229.3	9.3	5.2	-178.51	-179.9	183.7	735.1	728.0	7.12	103.267			
1,700.0	1,577.9	1,310.6	1,272.2	10.7	5.6	-179.05	-189.1	198.7	823.6	816.1	7.51	109.631			
1,800.0	1,650.5	1,352.3	1,310.8	12.2	5.9	-179.51	-197.3	212.1	914.4	906.5	7.91	115.600			
1,821.4	1,665.5	1,360.6	1,318.5	12.5	6.0	-179.60	-198.9	214.7	934.1	926.1	7.99	116.862			
1,900.0	1,720.5	1,390.6	1,346.3	13.8	6.2	-179.95	-204.8	224.4	1,006.8	998.3	8.42	119.623			
2,000.0	1,790.4	1,428.9	1,381.7	15.4	6.5	179.68	-212.4	236.7	1,099.1	1,090.1	8.97	122.553			
2,100.0	1,860.3	1,467.1	1,417.1	17.0	6.8	179.36	-219.9	249.0	1,191.5	1,182.0	9.53	125.045			
2,200.0	1,930.2	1,505.3	1,452.5	18.7	7.1	179.09	-227.4	261.3	1,283.9	1,273.8	10.09	127.222			
2,300.0	2,000.1	1,543.6	1,487.9	20.3	7.4	178.86	-235.0	273.7	1,376.2	1,365.6	10.66	129.051			
2,400.0	2,070.1	1,581.8	1,523.3	21.9	7.7	178.65	-242.5	286.0	1,468.6	1,457.4	11.24	130.679			
2,500.0	2,140.0	1,620.0	1,558.7	23.6	8.0	178.47	-250.0	298.3	1,561.0	1,549.2	11.82	132.100			
2,600.0	2,209.9	1,658.3	1,594.1	25.2	8.3	178.31	-257.6	310.6	1,653.4	1,641.0	12.40	133.347			
2,700.0	2,279.8	1,696.5	1,629.5	26.9	8.6	178.17	-265.1	322.9	1,745.8	1,732.8	12.98	134.476			
2,800.0	2,349.7	1,734.7	1,664.9	28.5	8.9	178.04	-272.6	335.2	1,838.2	1,824.6	13.57	135.458			
2,900.0	2,419.6	1,773.0	1,700.3	30.2	9.2	177.92	-280.2	347.5	1,930.6	1,916.4	14.16	136.350			
3,000.0	2,489.5	1,811.2	1,735.8	31.8	9.5	177.81	-287.7	359.8	2,022.9	2,008.2	14.75	137.159			
3,100.0	2,559.5	1,849.4	1,771.2	33.4	9.8	177.72	-295.3	372.1	2,115.3	2,100.0	15.34	137.877			
3,208.8	2,635.5	1,891.0	1,809.7	35.2	10.2	177.62	-303.4	385.5	2,215.8	2,199.8	15.99	138.597			
3,300.0	2,700.8	1,927.9	1,843.8	36.6	10.5	177.79	-310.7	397.4	2,299.3	2,282.5	16.71	137.569			
3,400.0	2,775.8	1,972.8	1,885.4	38.0	10.8	177.92	-319.6	411.9	2,388.6	2,371.1	17.47	136.726			
3,500.0	2,854.2	2,022.4	1,931.3	39.2	11.2	178.01	-329.3	427.8	2,475.4	2,457.2	18.19	136.086			
3,600.0	2,935.7	2,076.3	1,981.3	40.3	11.7	178.07	-340.0	445.2	2,559.5	2,540.7	18.87	135.628			
3,700.0	3,020.1	2,134.7	2,035.3	41.3	12.1	178.12	-351.5	464.0	2,640.7	2,621.2	19.51	135.339			
3,800.0	3,107.2	2,197.1	2,093.1	42.3	12.6	178.14	-363.8	484.1	2,718.7	2,698.6	20.11	135.209			
3,900.0	3,196.8	2,263.6	2,154.7	43.1	13.2	178.15	-376.9	505.5	2,793.4	2,772.7	20.66	135.225			
4,000.0	3,288.5	2,333.8	2,219.7	43.8	13.7	178.15	-390.7	528.1	2,864.5	2,843.3	21.16	135.388			
4,100.0	3,382.2	2,407.7	2,288.1	44.4	14.3	178.14	-405.3	551.9	2,931.8	2,910.2	21.61	135.695			
4,200.0	3,477.7	2,484.9	2,359.6	45.0	14.9	178.13	-420.5	576.7	2,995.1	2,973.1	22.00	136.145			
4,300.0	3,574.5	2,565.4	2,434.1	45.4	15.6	178.10	-436.4	602.7	3,054.3	3,032.0	22.34	136.742			
4,400.0	3,672.5	2,648.8	2,511.4	45.7	16.2	178.07	-452.8	629.5	3,109.3	3,086.7	22.61	137.490			
4,500.0	3,771.4	2,735.0	2,591.2	46.0	16.9	178.03	-469.8	657.3	3,159.8	3,136.9	22.83	138.395			
4,600.0	3,871.0	2,823.7	2,673.3	46.2	17.7	177.99	-487.3	685.8	3,205.7	3,182.7	22.99	139.465			
4,700.0	3,970.9	2,914.6	2,757.6	46.3	18.4	177.93	-505.2	715.1	3,246.9	3,223.8	23.08	140.707			
4,730.1	4,001.0	2,942.5	2,783.3	46.3	18.6	130.24	-510.7	724.1	3,258.4	3,235.3	23.09	141.116			
4,800.0	4,070.9	3,007.2	2,843.2	46.3	19.1	130.17	-523.4	744.9	3,284.5	3,261.1	23.38	140.482			
4,900.0	4,170.9	3,099.8	2,929.0	46.3	19.9	130.07	-541.7	774.7	3,321.9	3,298.1	23.80	139.570			

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Frei A - Frei A1 - Wellbore #1 - Design #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD															Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
5,000.0	4,270.9	3,192.4	3,014.7	46.4	20.6	129.97	-559.9	804.5	3,359.3	3,335.0	24.22	138.676					
5,100.0	4,370.9	4,587.4	4,370.9	46.4	25.7	129.35	-688.5	1,014.5	3,359.3	3,331.8	27.43	122.451					
5,200.0	4,470.9	4,687.4	4,470.9	46.5	25.7	129.35	-688.5	1,014.5	3,359.3	3,331.6	27.69	121.301					
5,300.0	4,570.9	4,787.4	4,570.9	46.5	25.8	129.35	-688.5	1,014.5	3,359.3	3,331.3	27.96	120.152					
5,400.0	4,670.9	4,887.4	4,670.9	46.6	25.9	129.35	-688.5	1,014.5	3,359.3	3,331.0	28.23	119.005					
5,500.0	4,770.9	4,987.4	4,770.9	46.6	26.0	129.35	-688.5	1,014.5	3,359.3	3,330.8	28.50	117.861					
5,600.0	4,870.9	5,087.4	4,870.9	46.6	26.1	129.35	-688.5	1,014.5	3,359.3	3,330.5	28.78	116.721					
5,700.0	4,970.9	5,187.4	4,970.9	46.7	26.1	129.35	-688.5	1,014.5	3,359.3	3,330.2	29.06	115.586					
5,800.0	5,070.9	5,287.4	5,070.9	46.7	26.2	129.35	-688.5	1,014.5	3,359.3	3,329.9	29.35	114.457					
5,900.0	5,170.9	5,387.4	5,170.9	46.8	26.3	129.35	-688.5	1,014.5	3,359.3	3,329.6	29.64	113.334					
6,000.0	5,270.9	5,487.4	5,270.9	46.8	26.4	129.35	-688.5	1,014.5	3,359.3	3,329.3	29.93	112.219					
6,100.0	5,370.9	5,587.4	5,370.9	46.9	26.5	129.35	-688.5	1,014.5	3,359.3	3,329.0	30.23	111.111					
6,200.0	5,470.9	5,687.4	5,470.9	47.0	26.6	129.35	-688.5	1,014.5	3,359.3	3,328.7	30.54	110.012					
6,300.0	5,570.9	5,787.4	5,570.9	47.0	26.7	129.35	-688.5	1,014.5	3,359.3	3,328.4	30.84	108.922					
6,400.0	5,670.9	5,887.4	5,670.9	47.1	26.8	129.35	-688.5	1,014.5	3,359.3	3,328.1	31.15	107.842					
6,500.0	5,770.9	5,987.4	5,770.9	47.1	26.9	129.35	-688.5	1,014.5	3,359.3	3,327.8	31.46	106.771					
6,600.0	5,870.9	6,087.4	5,870.9	47.2	27.0	129.35	-688.5	1,014.5	3,359.3	3,327.5	31.78	105.710					
6,700.0	5,970.9	6,187.4	5,970.9	47.2	27.1	129.35	-688.5	1,014.5	3,359.3	3,327.2	32.10	104.660					
6,800.0	6,070.9	6,287.4	6,070.9	47.3	27.2	129.35	-688.5	1,014.5	3,359.3	3,326.8	32.42	103.621					
6,900.0	6,170.9	6,387.4	6,170.9	47.4	27.3	129.35	-688.5	1,014.5	3,359.3	3,326.5	32.74	102.593					
7,000.0	6,270.9	6,487.4	6,270.9	47.4	27.4	129.35	-688.5	1,014.5	3,359.3	3,326.2	33.07	101.577					
7,100.0	6,370.9	6,587.4	6,370.9	47.5	27.5	129.35	-688.5	1,014.5	3,359.3	3,325.9	33.40	100.572					
7,200.0	6,470.9	6,687.4	6,470.9	47.5	27.6	129.35	-688.5	1,014.5	3,359.3	3,325.5	33.73	99.578					
7,300.0	6,570.9	6,787.4	6,570.9	47.6	27.7	129.35	-688.5	1,014.5	3,359.3	3,325.2	34.07	98.596					
7,400.0	6,670.9	6,887.4	6,670.9	47.7	27.8	129.35	-688.5	1,014.5	3,359.3	3,324.8	34.41	97.627					
7,500.0	6,770.9	6,987.4	6,770.9	47.7	27.9	129.35	-688.5	1,014.5	3,359.3	3,324.5	34.75	96.669					
7,533.0	6,803.8	7,020.3	6,803.8	47.8	28.0	129.35	-688.5	1,014.5	3,359.3	3,324.4	34.86	96.356					
7,554.1	6,825.0	7,033.5	6,817.0	47.8	28.0	129.35	-688.5	1,014.5	3,359.3	3,324.3	34.92	96.196					

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Frei A - Frei A10 - Wellbore #1 - Design #1														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	8.51	24.7	3.7	25.0					
100.0	100.0	100.0	100.0	0.1	0.1	8.51	24.7	3.7	25.0	24.8	0.19	131.319		
200.0	200.0	200.0	200.0	0.3	0.3	8.51	24.7	3.7	25.0	24.3	0.64	39.036		
300.0	300.0	300.0	300.0	0.5	0.5	8.51	24.7	3.7	25.0	23.9	1.09	22.925 CC, ES		
400.0	400.0	398.7	398.7	0.8	0.8	63.46	26.8	5.2	26.0	24.5	1.53	16.962		
500.0	499.6	496.8	496.4	1.0	1.0	80.91	32.9	9.6	31.3	29.3	2.01	15.613 SF		
600.0	598.8	593.4	592.3	1.3	1.3	97.78	43.0	16.8	44.1	41.6	2.54	17.388		
700.0	697.1	688.1	685.4	1.6	1.6	108.77	56.6	26.6	65.2	62.0	3.14	20.748		
800.0	794.3	780.2	775.1	2.0	1.9	115.12	73.5	38.7	93.7	89.9	3.82	24.506		
900.0	890.2	869.2	860.8	2.6	2.4	118.75	93.2	52.7	128.9	124.3	4.59	28.074		
1,000.0	984.4	954.9	942.1	3.2	2.9	120.79	115.1	68.4	170.3	164.8	5.45	31.237		
1,100.0	1,076.8	1,036.8	1,018.6	3.9	3.4	121.85	138.8	85.4	217.3	210.9	6.40	33.953		
1,200.0	1,167.1	1,114.7	1,090.2	4.8	3.9	122.26	163.9	103.3	269.5	262.1	7.44	36.247		
1,300.0	1,254.9	1,188.6	1,156.9	5.7	4.5	122.19	189.8	121.9	326.6	318.1	8.56	38.140		
1,400.0	1,340.2	1,258.3	1,218.6	6.8	5.1	121.74	216.1	140.8	388.2	378.4	9.78	39.681		
1,500.0	1,422.6	1,323.9	1,275.5	8.0	5.7	120.96	242.5	159.7	453.9	442.8	11.10	40.905		
1,600.0	1,501.9	1,385.3	1,327.8	9.3	6.3	119.87	268.7	178.4	523.3	510.8	12.50	41.870		
1,700.0	1,577.9	1,442.7	1,375.7	10.7	6.9	118.49	294.4	196.8	596.1	582.1	14.00	42.562		
1,800.0	1,650.5	1,502.5	1,424.8	12.2	7.6	117.02	322.2	216.7	671.7	656.1	15.64	42.953		
1,821.4	1,665.5	1,515.8	1,435.8	12.5	7.7	116.72	328.4	221.2	688.1	672.1	16.00	43.003		
1,900.0	1,720.5	1,564.7	1,475.8	13.8	8.3	118.05	351.2	237.5	748.8	731.5	17.28	43.341		
2,000.0	1,790.4	1,626.8	1,526.7	15.4	8.9	119.47	380.1	258.2	826.2	807.3	18.90	43.710		
2,100.0	1,860.3	1,688.9	1,577.5	17.0	9.6	120.65	409.0	278.9	903.7	883.2	20.53	44.017		
2,200.0	1,930.2	1,750.9	1,628.4	18.7	10.3	121.65	438.0	299.6	981.4	959.3	22.17	44.274		
2,300.0	2,000.1	1,813.0	1,679.3	20.3	11.0	122.51	466.9	320.3	1,059.2	1,035.4	23.80	44.497		
2,400.0	2,070.1	1,875.1	1,730.2	21.9	11.7	123.25	495.8	341.0	1,137.1	1,111.6	25.44	44.688		
2,500.0	2,140.0	1,937.2	1,781.1	23.6	12.4	123.90	524.7	361.7	1,215.0	1,187.9	27.09	44.855		
2,600.0	2,209.9	1,999.3	1,832.0	25.2	13.1	124.47	553.7	382.4	1,293.0	1,264.3	28.73	45.003		
2,700.0	2,279.8	2,061.4	1,882.9	26.9	13.8	124.98	582.6	403.2	1,371.0	1,340.7	30.38	45.132		
2,800.0	2,349.7	2,123.5	1,933.8	28.5	14.5	125.43	611.5	423.9	1,449.1	1,417.1	32.03	45.249		
2,900.0	2,419.6	2,185.6	1,984.6	30.2	15.2	125.84	640.4	444.6	1,527.2	1,493.5	33.67	45.353		
3,000.0	2,489.5	2,247.7	2,035.5	31.8	15.9	126.21	669.4	465.3	1,605.3	1,570.0	35.32	45.447		
3,100.0	2,559.5	2,309.8	2,086.4	33.4	16.6	126.55	698.3	486.0	1,683.5	1,646.5	36.97	45.533		
3,208.8	2,635.5	2,377.3	2,141.8	35.2	17.3	126.88	729.8	508.5	1,768.5	1,729.8	38.77	45.616		
3,300.0	2,700.8	2,435.1	2,189.1	36.6	18.0	129.66	756.7	527.8	1,839.0	1,799.1	39.95	46.035		
3,400.0	2,775.8	2,501.0	2,243.1	38.0	18.7	132.24	787.4	549.8	1,914.2	1,873.0	41.20	46.458		
3,500.0	2,854.2	2,569.4	2,299.2	39.2	19.5	134.39	819.2	572.6	1,987.1	1,944.6	42.49	46.764		
3,600.0	2,935.7	2,640.0	2,357.1	40.3	20.3	136.17	852.2	596.2	2,057.4	2,013.6	43.80	46.967		
3,700.0	3,020.1	2,712.8	2,416.8	41.3	21.1	137.63	886.1	620.5	2,125.0	2,079.9	45.13	47.082		
3,800.0	3,107.2	2,787.5	2,478.0	42.3	22.0	138.83	920.9	645.4	2,189.8	2,143.3	46.47	47.124		
3,900.0	3,196.8	2,863.9	2,540.6	43.1	22.8	139.78	956.5	670.9	2,251.7	2,203.9	47.80	47.108		
4,000.0	3,288.5	2,941.8	2,604.4	43.8	23.7	140.53	992.7	696.8	2,310.5	2,261.4	49.11	47.048		
4,100.0	3,382.2	3,020.9	2,669.2	44.4	24.6	141.11	1,029.6	723.2	2,366.3	2,315.9	50.39	46.957		
4,200.0	3,477.7	3,125.0	2,754.8	45.0	25.7	141.30	1,077.9	757.8	2,418.9	2,367.1	51.86	46.640		
4,300.0	3,574.5	3,401.7	2,994.7	45.4	27.9	140.22	1,189.4	837.7	2,464.4	2,409.8	54.55	45.177		
4,400.0	3,672.5	3,722.0	3,293.9	45.7	29.8	139.53	1,281.8	903.8	2,498.8	2,442.0	56.77	44.018		
4,500.0	3,771.4	4,075.9	3,641.1	46.0	30.9	139.45	1,335.0	941.9	2,520.1	2,461.9	58.13	43.351		
4,600.0	3,871.0	4,306.0	3,871.0	46.2	31.2	139.81	1,341.9	946.8	2,528.5	2,470.0	58.48	43.234		
4,700.0	3,970.9	4,405.9	3,970.9	46.3	31.2	139.93	1,341.9	946.8	2,531.7	2,473.2	58.59	43.211		
4,730.1	4,001.0	4,436.0	4,001.0	46.3	31.2	92.26	1,341.9	946.8	2,531.9	2,473.3	58.61	43.201		
4,800.0	4,070.9	4,505.9	4,070.9	46.3	31.3	92.26	1,341.9	946.8	2,531.9	2,473.2	58.69	43.143		
4,900.0	4,170.9	4,605.9	4,170.9	46.3	31.3	92.26	1,341.9	946.8	2,531.9	2,473.1	58.80	43.057		

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Frei A - Frei A10 - Wellbore #1 - Design #1														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,270.9	4,705.9	4,270.9	46.4	31.4	92.26	1,341.9	946.8	2,531.9	2,473.0	58.92	42.970		
5,100.0	4,370.9	4,805.9	4,370.9	46.4	31.5	92.26	1,341.9	946.8	2,531.9	2,472.9	59.05	42.881		
5,200.0	4,470.9	4,905.9	4,470.9	46.5	31.5	92.26	1,341.9	946.8	2,531.9	2,472.8	59.17	42.790		
5,300.0	4,570.9	5,005.9	4,570.9	46.5	31.6	92.26	1,341.9	946.8	2,531.9	2,472.6	59.30	42.696		
5,400.0	4,670.9	5,105.9	4,670.9	46.6	31.6	92.26	1,341.9	946.8	2,531.9	2,472.5	59.43	42.602		
5,500.0	4,770.9	5,205.9	4,770.9	46.6	31.7	92.26	1,341.9	946.8	2,531.9	2,472.4	59.57	42.505		
5,600.0	4,870.9	5,305.9	4,870.9	46.6	31.8	92.26	1,341.9	946.8	2,531.9	2,472.2	59.71	42.406		
5,700.0	4,970.9	5,405.9	4,970.9	46.7	31.9	92.26	1,341.9	946.8	2,531.9	2,472.1	59.85	42.306		
5,800.0	5,070.9	5,505.9	5,070.9	46.7	31.9	92.26	1,341.9	946.8	2,531.9	2,471.9	59.99	42.204		
5,900.0	5,170.9	5,605.9	5,170.9	46.8	32.0	92.26	1,341.9	946.8	2,531.9	2,471.8	60.14	42.101		
6,000.0	5,270.9	5,705.9	5,270.9	46.8	32.1	92.26	1,341.9	946.8	2,531.9	2,471.6	60.29	41.996		
6,100.0	5,370.9	5,805.9	5,370.9	46.9	32.1	92.26	1,341.9	946.8	2,531.9	2,471.5	60.44	41.889		
6,200.0	5,470.9	5,905.9	5,470.9	47.0	32.2	92.26	1,341.9	946.8	2,531.9	2,471.3	60.60	41.781		
6,300.0	5,570.9	6,005.9	5,570.9	47.0	32.3	92.26	1,341.9	946.8	2,531.9	2,471.2	60.76	41.671		
6,400.0	5,670.9	6,105.9	5,670.9	47.1	32.4	92.26	1,341.9	946.8	2,531.9	2,471.0	60.92	41.560		
6,500.0	5,770.9	6,205.9	5,770.9	47.1	32.5	92.26	1,341.9	946.8	2,531.9	2,470.8	61.09	41.448		
6,600.0	5,870.9	6,305.9	5,870.9	47.2	32.5	92.26	1,341.9	946.8	2,531.9	2,470.7	61.25	41.334		
6,700.0	5,970.9	6,405.9	5,970.9	47.2	32.6	92.26	1,341.9	946.8	2,531.9	2,470.5	61.43	41.219		
6,800.0	6,070.9	6,505.9	6,070.9	47.3	32.7	92.26	1,341.9	946.8	2,531.9	2,470.3	61.60	41.103		
6,900.0	6,170.9	6,605.9	6,170.9	47.4	32.8	92.26	1,341.9	946.8	2,531.9	2,470.1	61.78	40.986		
7,000.0	6,270.9	6,705.9	6,270.9	47.4	32.9	92.26	1,341.9	946.8	2,531.9	2,470.0	61.96	40.867		
7,100.0	6,370.9	6,805.9	6,370.9	47.5	33.0	92.26	1,341.9	946.8	2,531.9	2,469.8	62.14	40.747		
7,200.0	6,470.9	6,905.9	6,470.9	47.5	33.1	92.26	1,341.9	946.8	2,531.9	2,469.6	62.32	40.627		
7,300.0	6,570.9	7,005.9	6,570.9	47.6	33.2	92.26	1,341.9	946.8	2,531.9	2,469.4	62.51	40.505		
7,354.4	6,625.3	7,060.3	6,625.3	47.6	33.2	92.26	1,341.9	946.8	2,531.9	2,469.3	62.61	40.438		
7,400.0	6,670.9	7,079.0	6,644.0	47.7	33.2	92.26	1,341.9	946.8	2,532.1	2,469.4	62.67	40.402		
7,500.0	6,770.9	7,079.0	6,644.0	47.7	33.2	92.26	1,341.9	946.8	2,535.1	2,472.3	62.76	40.394		
7,554.1	6,825.0	7,079.0	6,644.0	47.8	33.2	92.26	1,341.9	946.8	2,538.4	2,475.6	62.81	40.415		

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 131-													Offset Well Error:	0.0 ft
Frei A - Frei A11 - Wellbore #1 - Actual														
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	69.44	9.0	24.1	25.7					
100.0	100.0	99.9	99.9	0.1	0.0	68.35	9.6	24.1	25.9	25.8	0.10	272.040		
200.0	200.0	199.3	199.3	0.3	0.0	64.60	11.6	24.4	27.0	26.7	0.32	84.309		
300.0	300.0	297.5	297.3	0.5	0.0	57.09	17.5	27.1	32.3	31.8	0.54	59.373		
400.0	400.0	394.4	393.3	0.8	0.0	99.92	28.5	33.2	44.7	43.9	0.77	58.242		
500.0	499.6	489.9	487.0	1.0	0.0	99.46	44.4	41.9	63.4	62.4	1.00	63.258		
600.0	598.8	584.0	578.4	1.3	0.0	101.18	63.8	53.1	87.7	86.4	1.28	68.673		
700.0	697.1	676.5	667.5	1.6	0.0	103.61	85.4	65.7	116.1	114.5	1.61	72.157		
800.0	794.3	763.4	750.0	2.0	0.0	105.60	108.9	79.7	150.1	148.1	2.02	74.427		
900.0	890.2	849.1	829.7	2.6	0.0	106.89	136.2	95.4	190.0	187.5	2.51	75.684		
1,000.0	984.4	932.0	905.7	3.2	0.0	108.03	164.6	112.1	234.3	231.2	3.09	75.697		
1,100.0	1,076.8	1,011.4	977.8	3.9	0.0	109.21	192.5	130.3	283.0	279.3	3.77	75.034		
1,200.0	1,167.1	1,092.6	1,051.0	4.8	0.0	110.48	221.5	150.2	335.5	331.0	4.54	73.887		
1,300.0	1,254.9	1,164.9	1,115.4	5.7	0.0	111.09	248.8	168.4	391.4	386.0	5.42	72.243		
1,400.0	1,340.2	1,236.7	1,178.1	6.8	0.0	111.27	278.2	187.4	451.3	444.9	6.41	70.427		
1,500.0	1,422.6	1,299.1	1,231.4	8.0	0.0	110.82	305.9	204.3	514.7	507.2	7.53	68.374		
1,600.0	1,501.9	1,357.8	1,280.4	9.3	0.0	110.03	333.3	221.5	582.0	573.3	8.78	66.319		
1,700.0	1,577.9	1,422.1	1,332.6	10.7	0.0	109.11	365.5	240.7	652.3	642.1	10.15	64.264		
1,800.0	1,650.5	1,491.3	1,387.7	12.2	0.0	108.12	402.1	260.9	724.3	712.7	11.65	62.186		
1,821.4	1,665.5	1,505.4	1,398.9	12.5	0.0	107.88	409.7	265.0	739.9	727.9	11.98	61.736		
1,900.0	1,720.5	1,553.5	1,437.0	13.8	0.0	109.19	435.6	278.9	797.5	784.4	13.10	60.857		
2,000.0	1,790.4	1,615.2	1,485.5	15.4	0.0	110.62	469.1	297.1	871.5	856.9	14.52	59.998		
2,100.0	1,860.3	1,678.3	1,535.2	17.0	0.0	111.91	503.1	315.9	945.8	929.9	15.93	59.363		
2,200.0	1,930.2	1,735.9	1,580.7	18.7	0.0	112.94	533.9	333.4	1,020.7	1,003.4	17.34	58.854		
2,300.0	2,000.1	1,793.5	1,625.9	20.3	0.0	113.85	564.8	351.2	1,096.3	1,077.6	18.75	58.473		
2,400.0	2,070.1	1,861.8	1,679.4	21.9	0.0	114.78	601.4	372.4	1,172.0	1,151.9	20.13	58.220		
2,500.0	2,140.0	1,913.9	1,720.3	23.6	0.0	115.42	629.4	388.7	1,248.0	1,226.5	21.54	57.946		
2,600.0	2,209.9	1,972.0	1,765.8	25.2	0.0	116.09	660.2	407.7	1,325.0	1,302.0	22.92	57.798		
2,700.0	2,279.8	2,021.7	1,804.6	26.9	0.0	116.62	686.3	424.3	1,402.4	1,378.1	24.32	57.663		
2,800.0	2,349.7	2,091.6	1,859.4	28.5	0.0	117.29	723.1	447.4	1,479.7	1,454.1	25.68	57.630		
2,900.0	2,419.6	2,164.6	1,916.6	30.2	0.0	117.90	761.8	471.1	1,556.7	1,529.7	27.03	57.598		
3,000.0	2,489.5	2,225.4	1,964.5	31.8	0.0	118.38	793.7	490.7	1,633.7	1,605.3	28.39	57.538		
3,100.0	2,559.5	2,292.4	2,017.8	33.4	0.0	118.91	828.0	512.4	1,710.7	1,680.9	29.73	57.534 SF		
3,208.8	2,635.5	2,371.7	2,080.8	35.2	0.0	119.47	868.8	537.7	1,794.1	1,762.9	31.18	57.542		
3,300.0	2,700.8	2,436.2	2,132.0	36.6	0.0	122.49	902.4	558.1	1,863.2	1,831.6	31.55	59.054		
3,400.0	2,775.8	2,483.6	2,169.6	38.0	0.0	125.31	927.1	573.1	1,937.3	1,905.5	31.82	60.887		
3,500.0	2,854.2	2,539.0	2,213.6	39.2	0.0	127.80	955.4	591.5	2,010.3	1,978.3	32.00	62.821		
3,600.0	2,935.7	2,639.3	2,293.4	40.3	0.0	129.79	1,006.5	624.3	2,080.8	2,048.6	32.19	64.637		
3,700.0	3,020.1	2,723.2	2,360.3	41.3	0.0	131.44	1,049.6	650.7	2,147.9	2,115.6	32.37	66.363		
3,800.0	3,107.2	2,790.8	2,414.3	42.3	0.0	132.90	1,084.4	671.9	2,212.4	2,179.9	32.49	68.105		
3,900.0	3,196.8	2,854.4	2,464.9	43.1	0.0	134.16	1,117.1	692.1	2,274.6	2,242.1	32.56	69.850		
4,000.0	3,288.5	2,917.0	2,514.6	43.8	0.0	135.24	1,149.4	712.4	2,334.6	2,302.0	32.61	71.596		
4,100.0	3,382.2	2,990.0	2,572.2	44.4	0.0	136.04	1,187.4	736.2	2,392.1	2,359.5	32.67	73.215		
4,200.0	3,477.7	3,067.3	2,632.7	45.0	0.0	136.62	1,228.4	761.5	2,447.0	2,414.2	32.75	74.722		
4,300.0	3,574.5	3,179.8	2,721.2	45.4	0.0	136.69	1,287.4	797.8	2,498.7	2,465.7	32.98	75.774		
4,400.0	3,672.5	3,268.0	2,804.0	45.7	0.0	134.11	1,487.3	914.3	2,541.6	2,507.2	34.40	73.886		
4,500.0	3,771.4	4,172.8	3,626.6	46.0	0.0	133.03	1,617.7	980.0	2,563.7	2,528.7	35.04	73.162		
4,600.0	3,871.0	4,417.3	3,870.5	46.2	0.0	133.34	1,630.1	985.8	2,572.8	2,537.8	34.96	73.588		
4,700.0	3,970.9	4,504.8	3,958.1	46.3	0.0	133.46	1,630.6	985.8	2,575.8	2,540.9	34.91	73.787		
4,730.1	4,001.0	4,532.7	3,986.0	46.3	0.0	85.78	1,630.9	986.0	2,576.1	2,541.2	34.89	73.827		
4,800.0	4,070.9	4,617.0	4,070.2	46.3	0.0	85.77	1,631.4	986.2	2,576.3	2,541.4	34.93	73.753		
4,900.0	4,170.9	4,711.0	4,164.2	46.3	0.0	85.77	1,631.6	986.3	2,576.5	2,541.5	34.98	73.651		

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 131-													Offset Well Error:	0.0 ft
Frei A - Frei A11 - Wellbore #1 - Actual														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.0	4,270.9	4,805.0	4,258.2	46.4	0.0	85.76	1,632.0	986.6	2,576.8	2,541.7	35.04	73.546		
5,100.0	4,370.9	4,897.2	4,350.4	46.4	0.0	85.74	1,633.1	987.0	2,577.4	2,542.3	35.10	73.434		
5,200.0	4,470.9	5,013.8	4,467.1	46.5	0.0	85.71	1,634.3	987.4	2,577.8	2,542.6	35.16	73.310		
5,300.0	4,570.9	5,118.5	4,571.7	46.5	0.0	85.72	1,633.8	987.6	2,577.9	2,542.7	35.21	73.215		
5,400.0	4,670.9	5,226.9	4,680.1	46.6	0.0	85.74	1,633.2	987.2	2,577.5	2,542.3	35.26	73.103		
5,500.0	4,770.9	5,325.4	4,778.6	46.6	0.0	85.73	1,633.2	987.0	2,577.3	2,542.0	35.32	72.979		
5,600.0	4,870.9	5,435.0	4,888.2	46.6	0.0	85.75	1,632.7	986.5	2,576.8	2,541.4	35.37	72.857		
5,700.0	4,970.9	5,524.6	4,977.8	46.7	0.0	85.75	1,632.3	986.0	2,576.2	2,540.8	35.42	72.726		
5,734.8	5,005.7	5,553.0	5,006.2	46.7	0.0	85.75	1,632.4	986.0	2,576.2	2,540.7	35.45	72.681		
5,800.0	5,070.9	5,607.7	5,060.9	46.7	0.0	85.75	1,632.7	986.0	2,576.3	2,540.8	35.49	72.598		
5,900.0	5,170.9	5,709.3	5,162.5	46.8	0.0	85.73	1,633.3	986.6	2,576.9	2,541.3	35.56	72.474		
6,000.0	5,270.9	5,806.1	5,259.3	46.8	0.0	85.73	1,633.4	986.7	2,577.1	2,541.4	35.62	72.350		
6,100.0	5,370.9	5,907.3	5,360.5	46.9	0.0	85.73	1,633.5	987.3	2,577.7	2,542.0	35.68	72.235		
6,200.0	5,470.9	6,015.8	5,469.0	47.0	0.0	85.72	1,633.8	987.5	2,577.8	2,542.1	35.75	72.103		
6,300.0	5,570.9	6,108.8	5,562.0	47.0	0.0	85.72	1,634.1	987.7	2,578.0	2,542.2	35.82	71.968		
6,400.0	5,670.9	6,197.4	5,650.6	47.1	0.0	85.71	1,634.2	988.1	2,578.6	2,542.7	35.89	71.844		
6,500.0	5,770.9	6,291.8	5,745.0	47.1	0.0	85.71	1,634.4	989.0	2,579.5	2,543.5	35.96	71.729		
6,600.0	5,870.9	6,388.9	5,842.1	47.2	0.0	85.70	1,635.0	990.0	2,580.6	2,544.5	36.04	71.607		
6,700.0	5,970.9	6,486.1	5,939.3	47.2	0.0	85.67	1,636.2	991.0	2,581.7	2,545.6	36.12	71.474		
6,800.0	6,070.9	6,572.2	6,025.4	47.3	0.0	85.65	1,637.6	992.2	2,583.2	2,547.0	36.21	71.345		
6,900.0	6,170.9	6,701.9	6,155.1	47.4	0.0	85.65	1,637.6	994.0	2,584.6	2,548.4	36.28	71.241		
7,000.0	6,270.9	6,807.9	6,261.0	47.4	0.0	85.64	1,637.8	994.4	2,585.1	2,548.7	36.36	71.101		
7,100.0	6,370.9	6,894.8	6,347.9	47.5	0.0	85.62	1,639.0	994.9	2,585.7	2,549.3	36.45	70.947		
7,200.0	6,470.9	6,978.0	6,431.1	47.5	0.0	85.60	1,640.1	995.6	2,586.7	2,550.2	36.54	70.801		
7,300.0	6,570.9	6,978.0	6,431.1	47.6	0.0	85.60	1,640.1	995.6	2,590.2	2,553.6	36.61	70.742		
7,400.0	6,670.9	6,978.0	6,431.1	47.7	0.0	85.60	1,640.1	995.6	2,597.5	2,560.8	36.69	70.787		
7,500.0	6,770.9	6,978.0	6,431.1	47.7	0.0	85.60	1,640.1	995.6	2,608.6	2,571.9	36.78	70.933		
7,554.1	6,825.0	6,978.0	6,431.1	47.8	0.0	85.60	1,640.1	995.6	2,616.2	2,579.4	36.82	71.053		

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Frei A - Frei A12 - Wellbore #1 - Design #1		Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)					
0.0	0.0	0.0	0.0	0.0	0.0	8.52	37.1	5.6	37.5							
100.0	100.0	100.0	100.0	0.1	0.1	8.52	37.1	5.6	37.5	37.3	0.19	197.179				
200.0	200.0	200.0	200.0	0.3	0.3	8.52	37.1	5.6	37.5	36.9	0.64	58.613				
300.0	300.0	300.0	300.0	0.5	0.5	8.52	37.1	5.6	37.5	36.4	1.09	34.423	CC, ES			
400.0	400.0	398.1	398.0	0.8	0.8	60.40	39.4	6.6	38.6	37.1	1.53	25.162				
500.0	499.6	495.6	495.2	1.0	1.0	71.33	46.1	9.8	43.1	41.1	2.00	21.527				
600.0	598.8	592.0	590.9	1.3	1.3	84.39	57.3	15.0	53.2	50.6	2.53	21.058	SF			
700.0	697.1	686.9	684.2	1.6	1.6	95.35	72.5	22.1	70.3	67.1	3.14	22.406				
800.0	794.3	779.7	774.7	2.0	1.9	103.02	91.4	30.9	94.3	90.5	3.85	24.526				
900.0	890.2	870.1	861.7	2.6	2.4	108.03	113.6	41.3	124.8	120.1	4.66	26.773				
1,000.0	984.4	957.8	944.8	3.2	2.9	111.22	138.7	53.0	161.1	155.5	5.58	28.851				
1,100.0	1,076.8	1,042.4	1,023.8	3.9	3.4	113.18	166.2	65.9	202.9	196.3	6.62	30.665				
1,200.0	1,167.1	1,123.8	1,098.5	4.8	4.0	114.29	195.6	79.6	249.6	241.9	7.75	32.204				
1,300.0	1,254.9	1,200.0	1,167.1	5.7	4.6	114.76	225.7	93.7	301.0	292.0	8.98	33.523				
1,400.0	1,340.2	1,276.4	1,234.4	6.8	5.2	114.86	258.3	108.9	356.6	346.3	10.33	34.509				
1,500.0	1,422.6	1,347.4	1,295.7	8.0	5.9	114.54	290.8	124.1	416.2	404.4	11.78	35.344				
1,600.0	1,501.9	1,415.0	1,352.7	9.3	6.6	113.90	323.7	139.4	479.5	466.2	13.31	36.024				
1,700.0	1,577.9	1,479.1	1,405.6	10.7	7.2	112.97	356.5	154.8	546.1	531.1	14.95	36.529				
1,800.0	1,650.5	1,539.8	1,454.5	12.2	7.9	111.78	389.0	170.0	615.7	599.0	16.69	36.889				
1,821.4	1,665.5	1,552.3	1,464.5	12.5	8.0	111.49	395.9	173.2	631.0	613.9	17.08	36.949				
1,900.0	1,720.5	1,600.0	1,501.9	13.8	8.6	112.56	422.7	185.7	687.8	669.3	18.49	37.188				
2,000.0	1,790.4	1,654.2	1,543.6	15.4	9.2	113.47	454.2	200.4	761.1	740.8	20.30	37.500				
2,100.0	1,860.3	1,709.3	1,584.9	17.0	9.9	114.12	487.2	215.8	835.4	813.3	22.11	37.779				
2,200.0	1,930.2	1,762.9	1,624.0	18.7	10.6	114.53	520.4	231.3	910.8	886.8	23.95	38.023				
2,300.0	2,000.1	1,815.1	1,661.1	20.3	11.3	114.77	553.6	246.9	987.0	961.2	25.80	38.257				
2,400.0	2,070.1	1,865.7	1,696.1	21.9	12.0	114.88	586.7	262.3	1,064.0	1,036.4	27.66	38.469				
2,500.0	2,140.0	1,914.8	1,729.2	23.6	12.7	114.88	619.6	277.7	1,141.9	1,112.4	29.53	38.676				
2,600.0	2,209.9	1,962.4	1,760.3	25.2	13.4	114.80	652.2	293.0	1,220.5	1,189.1	31.40	38.869				
2,700.0	2,279.8	2,000.0	1,784.2	26.9	13.9	114.68	678.5	305.2	1,299.9	1,266.7	33.21	39.147				
2,800.0	2,349.7	2,053.2	1,817.1	28.5	14.7	114.46	716.4	322.9	1,379.9	1,344.8	35.16	39.245				
2,900.0	2,419.6	2,100.0	1,845.1	30.2	15.4	114.21	750.4	338.8	1,460.6	1,423.6	37.07	39.400				
3,000.0	2,489.5	2,138.2	1,867.2	31.8	16.0	113.98	778.5	352.0	1,542.0	1,503.1	38.93	39.611				
3,100.0	2,559.5	2,178.6	1,890.0	33.4	16.6	113.70	808.8	366.1	1,624.0	1,583.2	40.81	39.794				
3,208.8	2,635.5	2,220.9	1,913.1	35.2	17.3	113.39	841.0	381.1	1,713.9	1,671.0	42.86	39.992				
3,300.0	2,700.8	2,255.6	1,931.3	36.6	17.9	116.68	867.6	393.6	1,789.3	1,745.1	44.22	40.467				
3,400.0	2,775.8	2,297.9	1,953.0	38.0	18.6	119.86	900.6	409.0	1,871.3	1,825.7	45.60	41.039				
3,500.0	2,854.2	2,353.6	1,981.3	39.2	19.5	122.45	944.1	429.3	1,952.1	1,905.0	47.10	41.445				
3,600.0	2,935.7	2,409.8	2,009.8	40.3	20.4	124.69	987.9	449.8	2,031.4	1,982.8	48.58	41.819				
3,700.0	3,020.1	2,466.4	2,038.6	41.3	21.3	126.62	1,032.1	470.4	2,109.2	2,059.2	50.02	42.165				
3,800.0	3,107.2	2,523.2	2,067.4	42.3	22.3	128.30	1,076.4	491.1	2,185.4	2,134.0	51.43	42.492				
3,900.0	3,196.8	2,580.1	2,096.3	43.1	23.2	129.77	1,120.8	511.9	2,260.0	2,207.2	52.79	42.809				
4,000.0	3,288.5	2,671.5	2,143.3	43.8	24.6	130.36	1,191.9	545.1	2,332.8	2,278.1	54.64	42.691				
4,100.0	3,382.2	2,900.3	2,275.9	44.4	27.6	128.62	1,360.7	623.9	2,401.0	2,342.9	58.13	41.302				
4,200.0	3,477.7	3,201.3	2,482.4	45.0	31.1	126.65	1,558.7	716.4	2,461.8	2,399.8	61.99	39.712				
4,300.0	3,574.5	3,596.2	2,800.6	45.4	35.1	124.85	1,769.5	814.9	2,512.0	2,446.0	65.94	38.096				
4,400.0	3,672.5	4,092.2	3,256.5	45.7	38.4	123.95	1,943.3	896.1	2,547.0	2,477.8	69.21	36.802				
4,500.0	3,771.4	4,613.3	3,771.4	46.0	39.8	124.56	2,005.3	925.1	2,562.9	2,492.2	70.73	36.235				
4,600.0	3,871.0	4,712.9	3,871.0	46.2	39.8	124.87	2,005.3	925.1	2,568.3	2,497.2	71.04	36.151				
4,700.0	3,970.9	4,812.8	3,970.9	46.3	39.8	125.01	2,005.3	925.1	2,570.7	2,499.4	71.24	36.083				
4,730.1	4,001.0	4,842.9	4,001.0	46.3	39.9	77.33	2,005.3	925.1	2,570.8	2,499.5	71.28	36.065				
4,800.0	4,070.9	4,912.8	4,070.9	46.3	39.9	77.33	2,005.3	925.1	2,570.8	2,499.5	71.35	36.032				
4,900.0	4,170.9	5,012.8	4,170.9	46.3	39.9	77.33	2,005.3	925.1	2,570.8	2,499.4	71.44	35.984				

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Frei A - Frei A12 - Wellbore #1 - Design #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD															Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
5,000.0	4,270.9	5,112.8	4,270.9	46.4	40.0	77.33	2,005.3	925.1	2,570.8	2,499.3	71.54	35.934					
5,100.0	4,370.9	5,212.8	4,370.9	46.4	40.0	77.33	2,005.3	925.1	2,570.8	2,499.2	71.64	35.883					
5,200.0	4,470.9	5,312.8	4,470.9	46.5	40.1	77.33	2,005.3	925.1	2,570.8	2,499.1	71.75	35.831					
5,300.0	4,570.9	5,412.8	4,570.9	46.5	40.1	77.33	2,005.3	925.1	2,570.8	2,498.9	71.86	35.777					
5,400.0	4,670.9	5,512.8	4,670.9	46.6	40.2	77.33	2,005.3	925.1	2,570.8	2,498.8	71.97	35.723					
5,500.0	4,770.9	5,612.8	4,770.9	46.6	40.2	77.33	2,005.3	925.1	2,570.8	2,498.7	72.08	35.667					
5,600.0	4,870.9	5,712.8	4,870.9	46.6	40.3	77.33	2,005.3	925.1	2,570.8	2,498.6	72.19	35.610					
5,700.0	4,970.9	5,812.8	4,970.9	46.7	40.3	77.33	2,005.3	925.1	2,570.8	2,498.5	72.31	35.552					
5,800.0	5,070.9	5,912.8	5,070.9	46.7	40.4	77.33	2,005.3	925.1	2,570.8	2,498.4	72.43	35.493					
5,900.0	5,170.9	6,012.8	5,170.9	46.8	40.4	77.33	2,005.3	925.1	2,570.8	2,498.2	72.55	35.433					
6,000.0	5,270.9	6,112.8	5,270.9	46.8	40.5	77.33	2,005.3	925.1	2,570.8	2,498.1	72.68	35.372					
6,100.0	5,370.9	6,212.8	5,370.9	46.9	40.6	77.33	2,005.3	925.1	2,570.8	2,498.0	72.81	35.310					
6,200.0	5,470.9	6,312.8	5,470.9	47.0	40.6	77.33	2,005.3	925.1	2,570.8	2,497.9	72.94	35.246					
6,300.0	5,570.9	6,412.8	5,570.9	47.0	40.7	77.33	2,005.3	925.1	2,570.8	2,497.7	73.07	35.182					
6,400.0	5,670.9	6,512.8	5,670.9	47.1	40.8	77.33	2,005.3	925.1	2,570.8	2,497.6	73.21	35.117					
6,500.0	5,770.9	6,612.8	5,770.9	47.1	40.8	77.33	2,005.3	925.1	2,570.8	2,497.5	73.35	35.051					
6,600.0	5,870.9	6,712.8	5,870.9	47.2	40.9	77.33	2,005.3	925.1	2,570.8	2,497.3	73.49	34.984					
6,700.0	5,970.9	6,812.8	5,970.9	47.2	40.9	77.33	2,005.3	925.1	2,570.8	2,497.2	73.63	34.915					
6,800.0	6,070.9	6,912.8	6,070.9	47.3	41.0	77.33	2,005.3	925.1	2,570.8	2,497.0	73.78	34.847					
6,900.0	6,170.9	7,012.8	6,170.9	47.4	41.1	77.33	2,005.3	925.1	2,570.8	2,496.9	73.92	34.777					
7,000.0	6,270.9	7,112.8	6,270.9	47.4	41.1	77.33	2,005.3	925.1	2,570.8	2,496.7	74.07	34.706					
7,100.0	6,370.9	7,212.8	6,370.9	47.5	41.2	77.33	2,005.3	925.1	2,570.8	2,496.6	74.23	34.634					
7,200.0	6,470.9	7,312.8	6,470.9	47.5	41.3	77.33	2,005.3	925.1	2,570.8	2,496.4	74.38	34.562					
7,300.0	6,570.9	7,412.8	6,570.9	47.6	41.4	77.33	2,005.3	925.1	2,570.8	2,496.3	74.54	34.489					
7,400.0	6,670.9	7,428.9	6,587.0	47.7	41.4	77.33	2,005.3	925.1	2,572.2	2,497.5	74.63	34.467					
7,500.0	6,770.9	7,428.9	6,587.0	47.7	41.4	77.33	2,005.3	925.1	2,577.4	2,502.7	74.70	34.501					
7,554.1	6,825.0	7,428.9	6,587.0	47.8	41.4	77.33	2,005.3	925.1	2,581.8	2,507.1	74.74	34.542					



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Frei A - Frei A14 - Wellbore #1 - Design #1															
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-171.50	-24.7	-3.7	25.0						
100.0	100.0	100.0	100.0	0.1	0.1	-171.50	-24.7	-3.7	25.0	24.8	0.19	131.509			
200.0	200.0	200.0	200.0	0.3	0.3	-171.50	-24.7	-3.7	25.0	24.4	0.64	39.092			
300.0	300.0	300.0	300.0	0.5	0.5	-171.50	-24.7	-3.7	25.0	23.9	1.09	22.958 CC, ES			
400.0	400.0	400.4	400.3	0.8	0.8	-123.04	-23.6	-6.1	25.7	24.2	1.54	16.746			
500.0	499.6	500.7	500.3	1.0	1.0	-120.93	-20.3	-13.2	27.9	25.8	2.01	13.876			
600.0	598.8	601.0	599.7	1.3	1.3	-118.05	-14.7	-25.1	31.5	28.9	2.56	12.310			
700.0	697.1	701.1	698.2	1.6	1.6	-114.97	-6.9	-41.7	36.6	33.4	3.23	11.333			
800.0	794.3	801.1	795.4	2.0	2.1	-112.09	3.1	-62.9	43.3	39.3	4.07	10.643			
900.0	890.2	900.9	891.1	2.6	2.6	-109.56	15.1	-88.6	51.6	46.5	5.10	10.111			
1,000.0	984.4	1,000.6	984.9	3.2	3.2	-107.42	29.3	-118.7	61.4	55.0	6.34	9.683			
1,100.0	1,076.8	1,099.9	1,076.7	3.9	4.0	-105.62	45.5	-153.1	72.6	64.9	7.79	9.327			
1,200.0	1,167.1	1,199.1	1,166.2	4.8	4.8	-104.12	63.6	-191.7	85.4	75.9	9.46	9.025			
1,300.0	1,254.9	1,297.9	1,253.1	5.7	5.8	-102.84	83.6	-234.3	99.5	88.1	11.35	8.765			
1,400.0	1,340.2	1,396.5	1,337.2	6.8	6.9	-101.74	105.5	-280.8	114.9	101.5	13.46	8.538			
1,500.0	1,422.6	1,494.9	1,419.1	8.0	8.0	-101.26	128.8	-330.3	131.7	115.9	15.77	8.347			
1,600.0	1,501.9	1,593.2	1,500.7	9.3	9.2	-102.62	152.1	-379.9	149.5	131.3	18.18	8.223			
1,700.0	1,577.9	1,690.9	1,581.8	10.7	10.4	-105.27	175.3	-429.3	168.7	148.1	20.61	8.186 SF			
1,800.0	1,650.5	1,787.8	1,662.2	12.2	11.6	-108.71	198.3	-478.2	190.1	167.0	23.01	8.260			
1,821.4	1,665.5	1,808.4	1,679.2	12.5	11.9	-109.51	203.1	-488.6	194.9	171.4	23.51	8.293			
1,900.0	1,720.5	1,884.0	1,742.0	13.8	12.8	-112.71	221.1	-526.8	213.5	188.2	25.30	8.436			
2,000.0	1,790.4	1,980.1	1,821.8	15.4	14.0	-116.06	243.9	-575.3	237.8	210.3	27.52	8.641			
2,100.0	1,860.3	2,076.3	1,901.5	17.0	15.2	-118.79	266.7	-623.9	262.7	233.1	29.68	8.853			
2,200.0	1,930.2	2,172.4	1,981.3	18.7	16.4	-121.04	289.5	-672.4	288.1	256.3	31.80	9.061			
2,300.0	2,000.1	2,268.5	2,061.1	20.3	17.6	-122.94	312.3	-721.0	313.9	280.0	33.90	9.260			
2,400.0	2,070.1	2,364.7	2,140.9	21.9	18.8	-124.54	335.1	-769.5	340.0	304.0	35.98	9.449			
2,500.0	2,140.0	2,460.8	2,220.7	23.6	20.0	-125.92	357.9	-818.0	366.2	328.2	38.05	9.626			
2,600.0	2,209.9	2,557.0	2,300.5	25.2	21.2	-127.12	380.8	-866.6	392.7	352.6	40.10	9.791			
2,700.0	2,279.8	2,653.1	2,380.2	26.9	22.4	-128.16	403.6	-915.1	419.2	377.1	42.15	9.945			
2,800.0	2,349.7	2,749.2	2,460.0	28.5	23.6	-129.08	426.4	-963.7	445.9	401.7	44.20	10.089			
2,900.0	2,419.6	2,845.4	2,539.8	30.2	24.8	-129.90	449.2	-1,012.2	472.7	426.5	46.24	10.223			
3,000.0	2,489.5	2,941.5	2,619.6	31.8	26.0	-130.63	472.0	-1,060.8	499.6	451.3	48.28	10.348			
3,100.0	2,559.5	3,037.7	2,699.4	33.4	27.2	-131.28	494.8	-1,109.3	526.5	476.2	50.32	10.464			
3,208.8	2,635.5	3,142.2	2,786.2	35.2	28.6	-131.93	519.6	-1,162.1	555.9	503.3	52.53	10.582			
3,300.0	2,700.8	3,230.4	2,859.3	36.6	29.7	-132.78	540.6	-1,206.6	579.1	524.8	54.31	10.664			
3,400.0	2,775.8	3,327.9	2,940.2	38.0	30.9	-133.25	563.7	-1,255.9	601.3	544.9	56.36	10.669			
3,500.0	2,854.2	3,419.4	3,016.5	39.2	32.0	-133.35	585.3	-1,301.8	620.3	561.8	58.41	10.619			
3,600.0	2,935.7	3,500.0	3,085.2	40.3	32.8	-133.43	603.1	-1,339.8	637.6	577.4	60.15	10.600			
3,700.0	3,020.1	3,589.3	3,163.4	41.3	33.6	-133.46	621.5	-1,378.9	653.4	591.6	61.81	10.570			
3,800.0	3,107.2	3,674.3	3,239.6	42.3	34.3	-133.50	637.5	-1,412.9	667.8	604.5	63.28	10.553			
3,900.0	3,196.8	3,759.4	3,317.5	43.1	34.9	-133.51	652.1	-1,443.9	680.7	616.1	64.59	10.539			
4,000.0	3,288.5	3,844.6	3,396.9	43.8	35.5	-133.52	665.1	-1,471.8	692.2	626.4	65.75	10.528			
4,100.0	3,382.2	3,929.8	3,477.6	44.4	36.0	-133.50	676.7	-1,496.4	702.0	635.3	66.75	10.518			
4,200.0	3,477.7	4,015.1	3,559.6	45.0	36.4	-133.47	686.7	-1,517.7	710.4	642.8	67.60	10.509			
4,300.0	3,574.5	4,100.0	3,642.1	45.4	36.7	-133.43	695.2	-1,535.7	717.2	648.9	68.30	10.501			
4,400.0	3,672.5	4,185.9	3,726.5	45.7	37.0	-133.36	702.1	-1,550.5	722.3	653.5	68.84	10.492			
4,500.0	3,771.4	4,271.4	3,811.1	46.0	37.2	-133.27	707.4	-1,561.7	725.9	656.7	69.25	10.482			
4,600.0	3,871.0	4,357.0	3,896.2	46.2	37.4	-133.16	711.1	-1,569.6	727.9	658.4	69.53	10.469			
4,700.0	3,970.9	4,442.7	3,981.7	46.3	37.5	-133.03	713.2	-1,574.0	728.3	658.6	69.69	10.451			
4,730.1	4,001.0	4,468.5	4,007.6	46.3	37.5	179.33	713.5	-1,574.6	728.1	658.4	69.71	10.445			
4,798.2	4,069.1	4,530.1	4,069.1	46.3	37.5	179.36	713.6	-1,575.0	727.9	658.1	69.81	10.427			
4,800.0	4,070.9	4,531.8	4,070.9	46.3	37.5	179.36	713.6	-1,575.0	727.9	658.1	69.81	10.427			

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Frei A - Frei A14 - Wellbore #1 - Design #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
4,900.0	4,170.9	4,631.8	4,170.9	46.3	37.6	179.36	713.6	-1,575.0	727.9	658.0	69.91	10.412					
5,000.0	4,270.9	4,731.8	4,270.9	46.4	37.7	179.36	713.6	-1,575.0	727.9	657.9	70.02	10.396					
5,100.0	4,370.9	4,831.8	4,370.9	46.4	37.7	179.36	713.6	-1,575.0	727.9	657.8	70.13	10.379					
5,200.0	4,470.9	4,931.8	4,470.9	46.5	37.8	179.36	713.6	-1,575.0	727.9	657.7	70.25	10.362					
5,300.0	4,570.9	5,031.8	4,570.9	46.5	37.8	179.36	713.6	-1,575.0	727.9	657.6	70.37	10.345					
5,400.0	4,670.9	5,131.8	4,670.9	46.6	37.9	179.36	713.6	-1,575.0	727.9	657.4	70.49	10.327					
5,500.0	4,770.9	5,231.8	4,770.9	46.6	37.9	179.36	713.6	-1,575.0	727.9	657.3	70.61	10.309					
5,600.0	4,870.9	5,331.8	4,870.9	46.6	38.0	179.36	713.6	-1,575.0	727.9	657.2	70.73	10.291					
5,700.0	4,970.9	5,431.8	4,970.9	46.7	38.1	179.36	713.6	-1,575.0	727.9	657.1	70.86	10.273					
5,800.0	5,070.9	5,531.8	5,070.9	46.7	38.1	179.36	713.6	-1,575.0	727.9	656.9	70.99	10.254					
5,900.0	5,170.9	5,631.8	5,170.9	46.8	38.2	179.36	713.6	-1,575.0	727.9	656.8	71.12	10.235					
6,000.0	5,270.9	5,731.8	5,270.9	46.8	38.2	179.36	713.6	-1,575.0	727.9	656.7	71.26	10.215					
6,100.0	5,370.9	5,831.8	5,370.9	46.9	38.3	179.36	713.6	-1,575.0	727.9	656.5	71.40	10.195					
6,200.0	5,470.9	5,931.8	5,470.9	47.0	38.4	179.36	713.6	-1,575.0	727.9	656.4	71.54	10.175					
6,300.0	5,570.9	6,031.8	5,570.9	47.0	38.5	179.36	713.6	-1,575.0	727.9	656.2	71.68	10.155					
6,400.0	5,670.9	6,131.8	5,670.9	47.1	38.5	179.36	713.6	-1,575.0	727.9	656.1	71.83	10.134					
6,500.0	5,770.9	6,231.8	5,770.9	47.1	38.6	179.36	713.6	-1,575.0	727.9	655.9	71.98	10.113					
6,600.0	5,870.9	6,331.8	5,870.9	47.2	38.7	179.36	713.6	-1,575.0	727.9	655.8	72.13	10.092					
6,700.0	5,970.9	6,431.8	5,970.9	47.2	38.7	179.36	713.6	-1,575.0	727.9	655.6	72.28	10.071					
6,800.0	6,070.9	6,531.8	6,070.9	47.3	38.8	179.36	713.6	-1,575.0	727.9	655.5	72.44	10.049					
6,900.0	6,170.9	6,631.8	6,170.9	47.4	38.9	179.36	713.6	-1,575.0	727.9	655.3	72.59	10.027					
7,000.0	6,270.9	6,731.8	6,270.9	47.4	39.0	179.36	713.6	-1,575.0	727.9	655.2	72.75	10.005					
7,100.0	6,370.9	6,831.8	6,370.9	47.5	39.0	179.36	713.6	-1,575.0	727.9	655.0	72.92	9.983					
7,200.0	6,470.9	6,931.8	6,470.9	47.5	39.1	179.36	713.6	-1,575.0	727.9	654.8	73.08	9.960					
7,300.0	6,570.9	7,031.8	6,570.9	47.6	39.2	179.36	713.6	-1,575.0	727.9	654.7	73.25	9.937					
7,400.0	6,670.9	7,131.8	6,670.9	47.7	39.3	179.36	713.6	-1,575.0	727.9	654.5	73.42	9.914					
7,500.0	6,770.9	7,231.8	6,770.9	47.7	39.4	179.36	713.6	-1,575.0	727.9	654.3	73.59	9.891					
7,554.1	6,825.0	7,285.9	6,825.0	47.8	39.4	179.36	713.6	-1,575.0	727.9	654.2	73.69	9.878					

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Frei A - Frei A16 - Wellbore #1 - Actual		Offset Site Error: 0.0 ft	
Survey Program: 131-													Offset Well Error: 0.0 ft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)					
0.0	0.0	0.0	0.0	0.0	0.0	39.48	33.7	27.8	43.7							
100.0	100.0	99.6	99.6	0.1	0.0	39.01	34.3	27.8	44.2	44.1	0.10	463.675				
200.0	200.0	198.6	198.6	0.3	0.0	37.53	36.3	27.9	45.9	45.5	0.32	143.290				
300.0	300.0	296.0	295.8	0.5	0.0	35.18	41.9	29.5	51.4	50.8	0.54	94.295				
400.0	400.0	391.9	391.1	0.8	0.0	82.24	52.2	33.4	62.2	61.5	0.77	81.117				
500.0	499.6	486.6	484.1	1.0	0.0	83.49	68.4	38.5	78.3	77.3	1.00	78.023				
600.0	598.8	579.6	574.6	1.3	0.0	87.54	87.9	47.7	100.1	98.8	1.28	78.099				
700.0	697.1	669.6	661.1	1.6	0.0	90.52	111.2	56.7	125.9	124.3	1.62	77.573				
800.0	794.3	756.3	743.3	2.0	0.0	95.02	134.6	71.1	158.3	156.3	2.04	77.489				
900.0	890.2	839.4	820.8	2.6	0.0	98.39	160.1	86.9	196.4	193.9	2.55	77.029				
1,000.0	984.4	917.7	892.2	3.2	0.0	100.76	187.1	104.0	240.8	237.6	3.15	76.399				
1,100.0	1,076.8	1,004.0	969.2	3.9	0.0	102.24	221.6	122.3	289.0	285.2	3.85	74.993				
1,200.0	1,167.1	1,084.8	1,040.2	4.8	0.0	102.99	256.5	138.5	339.3	334.7	4.66	72.758				
1,300.0	1,254.9	1,159.8	1,105.4	5.7	0.0	103.57	289.9	154.7	393.0	387.4	5.58	70.410				
1,400.0	1,340.2	1,232.6	1,167.2	6.8	0.0	103.69	324.9	170.5	449.8	443.2	6.61	68.010				
1,500.0	1,422.6	1,308.8	1,230.4	8.0	0.0	103.55	364.4	186.4	509.0	501.2	7.76	65.548				
1,600.0	1,501.9	1,374.3	1,283.2	9.3	0.0	102.85	400.8	199.9	570.7	561.7	9.05	63.095				
1,700.0	1,577.9	1,434.0	1,329.7	10.7	0.0	101.80	435.9	212.8	635.6	625.1	10.46	60.791				
1,800.0	1,650.5	1,504.0	1,383.2	12.2	0.0	100.97	478.2	228.3	702.7	690.7	11.98	58.674				
1,821.4	1,665.5	1,518.8	1,394.5	12.5	0.0	100.79	487.2	231.6	717.2	704.9	12.32	58.233				
1,900.0	1,720.5	1,573.0	1,435.8	13.8	0.0	102.19	520.2	243.6	770.9	757.4	13.50	57.110				
2,000.0	1,790.4	1,638.6	1,485.5	15.4	0.0	103.63	560.6	258.3	839.8	824.8	15.00	55.970				
2,100.0	1,860.3	1,702.3	1,533.1	17.0	0.0	104.78	600.3	272.8	909.5	893.0	16.51	55.082				
2,200.0	1,930.2	1,766.8	1,581.1	18.7	0.0	105.78	640.6	287.8	979.9	961.9	18.02	54.389				
2,300.0	2,000.1	1,830.2	1,628.3	20.3	0.0	106.67	680.1	302.9	1,050.8	1,031.3	19.52	53.845				
2,400.0	2,070.1	1,893.0	1,675.3	21.9	0.0	107.49	718.7	318.5	1,122.3	1,101.3	21.01	53.422				
2,500.0	2,140.0	1,956.6	1,723.0	23.6	0.0	108.26	757.7	334.6	1,194.2	1,171.7	22.49	53.093				
2,600.0	2,209.9	2,024.5	1,773.9	25.2	0.0	109.01	799.0	352.0	1,266.4	1,242.5	23.97	52.842				
2,700.0	2,279.8	2,091.4	1,824.3	26.9	0.0	109.67	839.6	369.1	1,338.7	1,313.3	25.44	52.629				
2,800.0	2,349.7	2,152.5	1,870.2	28.5	0.0	110.23	876.7	385.0	1,411.3	1,384.4	26.91	52.444				
2,900.0	2,419.6	2,223.8	1,923.7	30.2	0.0	110.82	919.9	403.7	1,484.2	1,455.8	28.37	52.317				
3,000.0	2,489.5	2,288.0	1,971.9	31.8	0.0	111.30	958.9	420.4	1,556.9	1,527.1	29.84	52.184				
3,100.0	2,559.5	2,342.3	2,012.7	33.4	0.0	111.69	991.6	434.9	1,630.2	1,598.9	31.31	52.070				
3,208.8	2,635.5	2,425.3	2,075.4	35.2	0.0	112.26	1,041.1	457.4	1,710.1	1,677.2	32.87	52.027 SF				
3,300.0	2,700.8	2,486.8	2,122.1	36.6	0.0	115.21	1,077.7	473.9	1,776.3	1,742.8	33.50	53.031				
3,400.0	2,775.8	2,551.6	2,171.3	38.0	0.0	118.04	1,116.0	491.4	1,847.6	1,813.6	33.99	54.361				
3,500.0	2,854.2	2,644.6	2,241.5	39.2	0.0	120.41	1,171.8	516.0	1,916.8	1,882.4	34.42	55.695				
3,600.0	2,935.7	2,739.5	2,312.9	40.3	0.0	122.30	1,229.5	539.9	1,983.3	1,948.5	34.82	56.954				
3,700.0	3,020.1	2,818.9	2,372.9	41.3	0.0	123.93	1,277.7	559.5	2,047.3	2,012.1	35.17	58.218				
3,800.0	3,107.2	2,912.0	2,443.6	42.3	0.0	125.19	1,334.0	582.2	2,108.7	2,073.2	35.50	59.399				
3,900.0	3,196.8	3,000.7	2,511.2	43.1	0.0	126.24	1,387.3	603.3	2,167.4	2,131.6	35.79	60.552				
4,000.0	3,288.5	3,070.3	2,564.4	43.8	0.0	127.26	1,429.0	619.8	2,223.7	2,187.7	35.99	61.794				
4,100.0	3,382.2	3,213.6	2,675.1	44.4	0.0	127.40	1,513.6	653.3	2,277.4	2,241.0	36.42	62.530				
4,200.0	3,477.7	3,293.8	2,737.8	45.0	0.0	127.97	1,560.4	670.7	2,327.0	2,290.4	36.59	63.588				
4,300.0	3,574.5	3,357.9	2,787.9	45.4	0.0	128.56	1,598.0	684.9	2,374.5	2,337.8	36.66	64.762				
4,400.0	3,672.5	3,424.7	2,839.8	45.7	0.0	129.00	1,637.1	700.2	2,420.2	2,383.5	36.71	65.929				
4,500.0	3,771.4	3,496.7	2,895.8	46.0	0.0	129.28	1,679.2	716.9	2,463.9	2,427.2	36.74	67.056				
4,600.0	3,871.0	3,573.0	2,955.4	46.2	0.0	129.42	1,723.3	735.0	2,505.6	2,468.8	36.77	68.139				
4,700.0	3,970.9	3,654.4	3,019.1	46.3	0.0	129.39	1,770.0	754.4	2,545.1	2,508.3	36.80	69.152				
4,730.1	4,001.0	3,676.0	3,036.0	46.3	0.0	81.72	1,782.4	759.6	2,556.5	2,519.7	36.79	69.483				
4,800.0	4,070.9	3,726.1	3,075.2	46.3	0.0	81.08	1,811.2	771.5	2,583.1	2,546.0	37.11	69.603				
4,900.0	4,170.9	3,815.1	3,145.0	46.3	0.0	79.96	1,862.1	793.1	2,622.2	2,584.5	37.65	69.648				

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 131-													Offset Well Error:	0.0 ft
Frei A - Frei A16 - Wellbore #1 - Actual														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,270.9	4,056.7	3,342.5	46.4	0.0	77.29	1,989.7	848.0	2,659.5	2,620.7	38.82	68.504		
5,100.0	4,370.9	4,135.4	3,408.8	46.4	0.0	76.51	2,028.6	864.7	2,694.8	2,655.6	39.19	68.770		
5,200.0	4,470.9	5,260.9	4,472.8	46.5	0.0	71.33	2,310.9	989.1	2,715.2	2,674.0	41.19	65.924		
5,294.3	4,565.2	5,353.3	4,565.2	46.5	0.0	71.37	2,308.8	989.5	2,714.9	2,673.7	41.21	65.872		
5,300.0	4,570.9	5,358.0	4,569.9	46.5	0.0	71.37	2,308.7	989.5	2,714.9	2,673.7	41.22	65.869		
5,400.0	4,670.9	5,436.6	4,648.5	46.6	0.0	71.41	2,307.3	990.4	2,715.3	2,674.1	41.25	65.820		
5,500.0	4,770.9	5,515.3	4,727.2	46.6	0.0	71.43	2,306.7	991.6	2,716.5	2,675.2	41.30	65.782		
5,600.0	4,870.9	5,610.2	4,822.0	46.6	0.0	71.44	2,306.7	993.5	2,718.4	2,677.1	41.34	65.753		
5,700.0	4,970.9	5,754.0	4,965.8	46.7	0.0	71.44	2,306.9	995.0	2,719.5	2,678.1	41.39	65.700		
5,800.0	5,070.9	5,838.9	5,050.7	46.7	0.0	71.44	2,307.3	995.2	2,719.9	2,678.4	41.45	65.621		
5,900.0	5,170.9	5,959.9	5,171.7	46.8	0.0	71.41	2,308.9	995.3	2,720.4	2,678.9	41.51	65.530		
6,000.0	5,270.9	6,077.0	5,288.8	46.8	0.0	71.38	2,309.8	994.1	2,719.6	2,678.1	41.58	65.409		
6,073.8	5,344.7	6,132.0	5,343.8	46.9	0.0	71.36	2,310.5	993.7	2,719.4	2,677.8	41.63	65.329		
6,100.0	5,370.9	6,157.1	5,368.9	46.9	0.0	71.36	2,310.9	993.6	2,719.4	2,677.8	41.64	65.302		
6,200.0	5,470.9	6,256.6	5,468.4	47.0	0.0	71.32	2,312.4	993.2	2,719.5	2,677.8	41.71	65.197		
6,300.0	5,570.9	6,355.9	5,567.7	47.0	0.0	71.31	2,313.0	993.0	2,719.6	2,677.8	41.78	65.098		
6,400.0	5,670.9	6,451.6	5,663.4	47.1	0.0	71.31	2,312.9	993.3	2,719.8	2,678.0	41.84	65.014		
6,500.0	5,770.9	6,550.2	5,761.9	47.1	0.0	71.34	2,311.7	993.9	2,720.0	2,678.1	41.89	64.939		
6,600.0	5,870.9	6,633.3	5,845.1	47.2	0.0	71.37	2,310.8	994.8	2,720.6	2,678.7	41.94	64.869		
6,700.0	5,970.9	6,714.9	5,926.7	47.2	0.0	71.38	2,310.6	996.0	2,722.0	2,680.0	42.00	64.809		
6,800.0	6,070.9	6,793.0	6,004.8	47.3	0.0	71.37	2,311.4	997.1	2,723.7	2,681.7	42.07	64.748		
6,900.0	6,170.9	6,887.0	6,098.7	47.4	0.0	71.34	2,313.4	998.9	2,726.2	2,684.0	42.14	64.690		
7,000.0	6,270.9	7,088.9	6,300.6	47.4	0.0	71.31	2,315.8	1,000.5	2,727.8	2,685.5	42.22	64.606		
7,100.0	6,370.9	7,203.6	6,415.3	47.5	0.0	71.34	2,313.9	999.4	2,726.3	2,684.0	42.28	64.482		
7,144.8	6,415.7	7,204.0	6,415.7	47.5	0.0	71.34	2,313.9	999.4	2,725.9	2,683.6	42.31	64.427		
7,200.0	6,470.9	7,204.0	6,415.7	47.5	0.0	71.34	2,313.9	999.4	2,726.5	2,684.1	42.35	64.382		
7,300.0	6,570.9	7,204.0	6,415.7	47.6	0.0	71.34	2,313.9	999.4	2,730.3	2,687.9	42.42	64.367		
7,400.0	6,670.9	7,204.0	6,415.7	47.7	0.0	71.34	2,313.9	999.4	2,737.8	2,695.3	42.49	64.436		
7,500.0	6,770.9	7,204.0	6,415.7	47.7	0.0	71.34	2,313.9	999.4	2,748.9	2,706.4	42.56	64.588		
7,554.1	6,825.0	7,204.0	6,415.7	47.8	0.0	71.34	2,313.9	999.4	2,756.5	2,713.9	42.60	64.705		

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Frei A - Frei A18 - Wellbore #1 - Design #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD															Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
0.0	0.0	0.0	0.0	0.0	0.0	8.57	12.3	1.9	12.5								
100.0	100.0	100.0	100.0	0.1	0.1	8.57	12.3	1.9	12.5	12.3	0.19	65.671					
200.0	200.0	200.0	200.0	0.3	0.3	8.57	12.3	1.9	12.5	11.8	0.64	19.521					
300.0	300.0	300.0	300.0	0.5	0.5	8.57	12.3	1.9	12.5	11.4	1.09	11.465 CC					
400.0	400.0	399.6	399.5	0.8	0.8	56.99	14.3	0.1	12.7	11.2	1.54	8.261 ES					
500.0	499.6	499.2	498.8	1.0	1.0	59.07	20.1	-5.1	13.3	11.3	2.01	6.641					
600.0	598.8	598.7	597.5	1.3	1.3	62.11	29.7	-13.7	14.4	11.9	2.54	5.666					
700.0	697.1	698.3	695.4	1.6	1.6	65.64	43.1	-25.8	16.0	12.8	3.19	4.998					
800.0	794.3	797.9	792.2	2.0	2.0	69.25	60.4	-41.2	18.0	14.0	4.01	4.500					
900.0	890.2	897.4	887.7	2.6	2.5	72.64	81.3	-60.1	20.6	15.6	5.02	4.113					
1,000.0	984.4	996.9	981.6	3.2	3.2	75.65	105.9	-82.2	23.8	17.5	6.24	3.809					
1,100.0	1,076.8	1,096.4	1,073.6	3.9	3.9	78.24	134.1	-107.5	27.4	19.7	7.68	3.569					
1,200.0	1,167.1	1,195.9	1,163.4	4.8	4.7	80.41	165.9	-136.0	31.6	22.2	9.35	3.378					
1,300.0	1,254.9	1,295.4	1,250.9	5.7	5.6	82.21	201.0	-167.5	36.2	25.0	11.24	3.224					
1,400.0	1,340.2	1,394.8	1,335.9	6.8	6.7	83.70	239.5	-202.1	41.3	28.0	13.35	3.098					
1,500.0	1,422.6	1,494.3	1,417.9	8.0	7.8	84.93	281.3	-239.6	46.9	31.2	15.69	2.992					
1,600.0	1,501.9	1,593.7	1,497.0	9.3	9.1	85.94	326.1	-279.8	53.0	34.7	18.25	2.902					
1,700.0	1,577.9	1,693.1	1,572.8	10.7	10.4	86.77	373.9	-322.8	59.4	38.4	21.03	2.825					
1,800.0	1,650.5	1,792.4	1,645.1	12.2	11.9	87.45	424.6	-368.3	66.2	42.2	24.03	2.757					
1,821.4	1,665.5	1,813.6	1,660.1	12.5	12.3	87.58	435.8	-378.3	67.8	43.1	24.70	2.743					
1,900.0	1,720.5	1,891.7	1,713.8	13.8	13.5	86.92	478.0	-416.2	73.5	46.4	27.18	2.706					
2,000.0	1,790.4	1,990.6	1,778.3	15.4	15.2	83.03	533.7	-466.2	81.7	51.4	30.26	2.699 SF					
2,100.0	1,860.3	2,088.6	1,838.4	17.0	16.9	76.80	591.3	-517.9	91.5	58.5	32.97	2.774					
2,200.0	1,930.2	2,187.2	1,896.7	18.7	18.7	70.36	650.5	-571.1	103.2	68.0	35.22	2.932					
2,300.0	2,000.1	2,285.9	1,955.0	20.3	20.6	65.27	709.8	-624.3	116.1	78.8	37.23	3.118					
2,400.0	2,070.1	2,384.7	2,013.3	21.9	22.4	61.21	769.0	-677.5	129.6	90.5	39.11	3.314					
2,500.0	2,140.0	2,483.4	2,071.7	23.6	24.2	57.93	828.3	-730.7	143.6	102.7	40.93	3.510					
2,600.0	2,209.9	2,582.1	2,130.0	25.2	26.1	55.24	887.5	-783.9	158.1	115.4	42.72	3.700					
2,700.0	2,279.8	2,680.8	2,188.3	26.9	27.9	52.99	946.8	-837.1	172.8	128.3	44.51	3.883					
2,800.0	2,349.7	2,779.5	2,246.7	28.5	29.8	51.11	1,006.0	-890.3	187.7	141.5	46.29	4.055					
2,900.0	2,419.6	2,878.2	2,305.0	30.2	31.6	49.50	1,065.3	-943.5	202.9	154.8	48.09	4.219					
3,000.0	2,489.5	2,976.9	2,363.3	31.8	33.5	48.11	1,124.5	-996.7	218.1	168.2	49.89	4.372					
3,100.0	2,559.5	3,075.6	2,421.6	33.4	35.3	46.91	1,183.7	-1,049.9	233.5	181.8	51.70	4.516					
3,208.8	2,635.5	3,191.4	2,491.7	35.2	37.4	45.99	1,252.4	-1,111.5	248.9	195.0	53.88	4.619					
3,300.0	2,700.8	3,292.0	2,556.8	36.6	39.0	45.95	1,309.4	-1,162.7	259.7	203.7	55.97	4.640					
3,400.0	2,775.8	3,402.8	2,633.2	38.0	40.6	45.93	1,369.2	-1,216.3	270.9	212.8	58.06	4.666					
3,500.0	2,854.2	3,514.3	2,714.5	39.2	42.2	45.94	1,425.9	-1,267.3	281.3	221.3	60.00	4.689					
3,600.0	2,935.7	3,626.5	2,800.7	40.3	43.6	45.96	1,479.3	-1,315.2	291.1	229.3	61.80	4.710					
3,700.0	3,020.1	3,739.2	2,891.4	41.3	44.9	46.00	1,529.1	-1,359.9	300.0	236.6	63.43	4.730					
3,800.0	3,107.2	3,852.5	2,986.4	42.3	46.1	46.06	1,575.0	-1,401.1	308.2	243.3	64.91	4.748					
3,900.0	3,196.8	3,966.2	3,085.3	43.1	47.2	46.13	1,616.8	-1,438.6	315.5	249.2	66.22	4.764					
4,000.0	3,288.5	4,080.4	3,187.7	43.8	48.1	46.21	1,654.3	-1,472.3	321.9	254.5	67.37	4.778					
4,100.0	3,382.2	4,195.0	3,293.4	44.4	48.9	46.30	1,687.2	-1,501.9	327.4	259.1	68.36	4.790					
4,200.0	3,477.7	4,309.9	3,401.8	45.0	49.6	46.39	1,715.5	-1,527.3	332.0	262.8	69.17	4.800					
4,300.0	3,574.5	4,425.0	3,512.5	45.4	50.1	46.50	1,738.9	-1,548.3	335.7	265.8	69.83	4.807					
4,400.0	3,672.5	4,540.4	3,625.2	45.7	50.6	46.62	1,757.4	-1,564.9	338.4	268.0	70.33	4.811					
4,500.0	3,771.4	4,655.9	3,739.2	46.0	50.9	46.74	1,770.7	-1,576.9	340.1	269.4	70.69	4.811					
4,600.0	3,871.0	4,771.4	3,854.2	46.2	51.1	46.87	1,778.9	-1,584.2	340.8	269.9	70.91	4.807					
4,700.0	3,970.9	4,886.9	3,969.6	46.3	51.2	47.01	1,782.0	-1,586.9	340.6	269.6	71.01	4.797					
4,730.1	4,001.0	4,918.3	4,001.0	46.3	51.2	-0.64	1,782.0	-1,587.0	340.5	269.5	71.00	4.795					
4,800.0	4,070.9	4,988.1	4,070.9	46.3	51.2	-0.64	1,782.0	-1,587.0	340.5	269.4	71.07	4.791					
4,900.0	4,170.9	5,088.1	4,170.9	46.3	51.2	-0.64	1,782.0	-1,587.0	340.5	269.3	71.17	4.784					

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Frei A - Frei A18 - Wellbore #1 - Design #1														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,270.9	5,188.1	4,270.9	46.4	51.3	-0.64	1,782.0	-1,587.0	340.5	269.2	71.27	4.777		
5,100.0	4,370.9	5,288.1	4,370.9	46.4	51.3	-0.64	1,782.0	-1,587.0	340.5	269.1	71.37	4.770		
5,200.0	4,470.9	5,388.1	4,470.9	46.5	51.3	-0.64	1,782.0	-1,587.0	340.5	269.0	71.48	4.763		
5,300.0	4,570.9	5,488.1	4,570.9	46.5	51.4	-0.64	1,782.0	-1,587.0	340.5	268.9	71.59	4.756		
5,400.0	4,670.9	5,588.1	4,670.9	46.6	51.4	-0.64	1,782.0	-1,587.0	340.5	268.8	71.70	4.749		
5,500.0	4,770.9	5,688.1	4,770.9	46.6	51.5	-0.64	1,782.0	-1,587.0	340.5	268.7	71.82	4.741		
5,600.0	4,870.9	5,788.1	4,870.9	46.6	51.5	-0.64	1,782.0	-1,587.0	340.5	268.5	71.93	4.733		
5,700.0	4,970.9	5,888.1	4,970.9	46.7	51.6	-0.64	1,782.0	-1,587.0	340.5	268.4	72.05	4.725		
5,800.0	5,070.9	5,988.1	5,070.9	46.7	51.6	-0.64	1,782.0	-1,587.0	340.5	268.3	72.18	4.717		
5,900.0	5,170.9	6,088.1	5,170.9	46.8	51.6	-0.64	1,782.0	-1,587.0	340.5	268.2	72.30	4.709		
6,000.0	5,270.9	6,188.1	5,270.9	46.8	51.7	-0.64	1,782.0	-1,587.0	340.5	268.1	72.43	4.701		
6,100.0	5,370.9	6,288.1	5,370.9	46.9	51.7	-0.64	1,782.0	-1,587.0	340.5	267.9	72.56	4.693		
6,200.0	5,470.9	6,388.1	5,470.9	47.0	51.8	-0.64	1,782.0	-1,587.0	340.5	267.8	72.69	4.684		
6,300.0	5,570.9	6,488.1	5,570.9	47.0	51.8	-0.64	1,782.0	-1,587.0	340.5	267.7	72.83	4.675		
6,400.0	5,670.9	6,588.1	5,670.9	47.1	51.9	-0.64	1,782.0	-1,587.0	340.5	267.5	72.96	4.666		
6,500.0	5,770.9	6,688.1	5,770.9	47.1	51.9	-0.64	1,782.0	-1,587.0	340.5	267.4	73.10	4.658		
6,600.0	5,870.9	6,788.1	5,870.9	47.2	52.0	-0.64	1,782.0	-1,587.0	340.5	267.2	73.25	4.648		
6,700.0	5,970.9	6,888.1	5,970.9	47.2	52.0	-0.64	1,782.0	-1,587.0	340.5	267.1	73.39	4.639		
6,800.0	6,070.9	6,988.1	6,070.9	47.3	52.1	-0.64	1,782.0	-1,587.0	340.5	266.9	73.54	4.630		
6,900.0	6,170.9	7,088.1	6,170.9	47.4	52.1	-0.64	1,782.0	-1,587.0	340.5	266.8	73.69	4.620		
7,000.0	6,270.9	7,188.1	6,270.9	47.4	52.2	-0.64	1,782.0	-1,587.0	340.5	266.6	73.84	4.611		
7,100.0	6,370.9	7,288.1	6,370.9	47.5	52.3	-0.64	1,782.0	-1,587.0	340.5	266.5	74.00	4.601		
7,200.0	6,470.9	7,388.1	6,470.9	47.5	52.3	-0.64	1,782.0	-1,587.0	340.5	266.3	74.15	4.592		
7,300.0	6,570.9	7,488.1	6,570.9	47.6	52.4	-0.64	1,782.0	-1,587.0	340.5	266.2	74.31	4.582		
7,400.0	6,670.9	7,588.1	6,670.9	47.7	52.4	-0.64	1,782.0	-1,587.0	340.5	266.0	74.48	4.572		
7,500.0	6,770.9	7,688.1	6,770.9	47.7	52.5	-0.64	1,782.0	-1,587.0	340.5	265.8	74.64	4.562		
7,523.7	6,794.6	7,711.9	6,794.6	47.8	52.5	-0.64	1,782.0	-1,587.0	340.5	265.8	74.68	4.559		
7,554.1	6,825.0	7,720.3	6,803.0	47.8	52.5	-0.64	1,782.0	-1,587.0	341.2	266.5	74.71	4.567		

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-171.58	-12.4	-1.8	12.5						
100.0	100.0	100.0	100.0	0.1	0.1	-171.58	-12.4	-1.8	12.5	12.3	0.19	65.838			
200.0	200.0	200.0	200.0	0.3	0.3	-171.58	-12.4	-1.8	12.5	11.9	0.64	19.571			
300.0	300.0	300.0	300.0	0.5	0.5	-171.58	-12.4	-1.8	12.5	11.4	1.09	11.494 CC			
400.0	400.0	400.3	400.2	0.8	0.8	-123.08	-10.9	-4.0	12.8	11.3	1.54	8.341 ES			
500.0	499.6	500.6	500.2	1.0	1.0	-120.85	-6.4	-10.5	13.7	11.7	2.01	6.832			
600.0	598.8	600.8	599.6	1.3	1.3	-117.73	1.1	-21.3	15.3	12.7	2.55	5.974			
700.0	697.1	701.1	698.1	1.6	1.6	-114.30	11.5	-36.3	17.5	14.2	3.22	5.416			
800.0	794.3	801.3	795.6	2.0	2.1	-111.00	24.9	-55.6	20.4	16.3	4.06	5.011			
900.0	890.2	901.5	891.6	2.6	2.6	-108.06	41.2	-79.0	23.9	18.9	5.10	4.698			
1,000.0	984.4	1,001.6	985.9	3.2	3.2	-105.54	60.3	-106.5	28.2	21.9	6.34	4.449			
1,100.0	1,076.8	1,101.7	1,078.3	3.9	4.0	-103.44	82.1	-138.0	33.2	25.4	7.81	4.247			
1,200.0	1,167.1	1,201.7	1,168.6	4.8	4.8	-101.69	106.7	-173.5	38.8	29.3	9.50	4.081			
1,300.0	1,254.9	1,301.7	1,256.4	5.7	5.8	-100.24	134.0	-212.7	45.0	33.6	11.42	3.940			
1,400.0	1,340.2	1,401.6	1,341.5	6.8	6.9	-99.03	163.8	-255.7	51.8	38.3	13.56	3.821			
1,500.0	1,422.6	1,501.4	1,423.7	8.0	8.1	-98.00	196.0	-302.2	59.2	43.3	15.94	3.717			
1,600.0	1,501.9	1,601.2	1,502.8	9.3	9.4	-97.12	230.7	-352.1	67.2	48.7	18.55	3.625			
1,700.0	1,577.9	1,700.8	1,580.3	10.7	10.8	-98.42	266.4	-403.6	75.9	54.6	21.29	3.563 SF			
1,800.0	1,650.5	1,800.1	1,657.5	12.2	12.1	-102.83	302.0	-454.9	85.6	61.6	23.97	3.569			
1,821.4	1,665.5	1,821.2	1,673.9	12.5	12.4	-104.06	309.6	-465.8	87.9	63.3	24.52	3.583			
1,900.0	1,720.5	1,899.0	1,734.4	13.8	13.5	-108.53	337.5	-506.0	96.8	70.4	26.42	3.663			
2,000.0	1,790.4	1,997.9	1,811.3	15.4	14.9	-113.13	372.9	-557.1	108.8	80.1	28.71	3.791			
2,100.0	1,860.3	2,096.9	1,888.2	17.0	16.3	-116.80	408.4	-608.2	121.5	90.6	30.89	3.931			
2,200.0	1,930.2	2,195.8	1,965.2	18.7	17.7	-119.77	443.9	-659.3	134.5	101.5	33.01	4.073			
2,300.0	2,000.1	2,294.7	2,042.1	20.3	19.2	-122.21	479.3	-710.4	147.8	112.7	35.10	4.210			
2,400.0	2,070.1	2,393.7	2,119.0	21.9	20.6	-124.25	514.8	-761.6	161.3	124.1	37.15	4.341			
2,500.0	2,140.0	2,492.6	2,195.9	23.6	22.0	-125.97	550.3	-812.7	175.0	135.8	39.20	4.464			
2,600.0	2,209.9	2,591.5	2,272.8	25.2	23.4	-127.45	585.7	-863.8	188.8	147.6	41.23	4.580			
2,700.0	2,279.8	2,690.5	2,349.8	26.9	24.8	-128.72	621.2	-914.9	202.7	159.5	43.25	4.687			
2,800.0	2,349.7	2,789.4	2,426.7	28.5	26.2	-129.82	656.7	-966.0	216.8	171.5	45.28	4.788			
2,900.0	2,419.6	2,888.3	2,503.6	30.2	27.6	-130.80	692.2	-1,017.1	230.8	183.6	47.30	4.881			
3,000.0	2,489.5	2,987.3	2,580.5	31.8	29.0	-131.66	727.6	-1,068.2	245.0	195.7	49.32	4.968			
3,100.0	2,559.5	3,086.2	2,657.4	33.4	30.5	-132.42	763.1	-1,119.4	259.2	207.9	51.33	5.049			
3,208.8	2,635.5	3,193.8	2,741.1	35.2	32.0	-133.17	801.7	-1,175.0	274.7	221.1	53.53	5.131			
3,300.0	2,700.8	3,284.3	2,811.5	36.6	33.3	-133.66	834.1	-1,221.7	286.2	230.7	55.46	5.161			
3,400.0	2,775.8	3,376.6	2,884.2	38.0	34.5	-133.70	866.5	-1,268.4	296.4	238.9	57.57	5.149			
3,500.0	2,854.2	3,467.4	2,958.3	39.2	35.6	-133.72	896.4	-1,311.5	305.9	246.4	59.47	5.144			
3,600.0	2,935.7	3,558.0	3,034.6	40.3	36.5	-133.73	924.3	-1,351.7	314.7	253.5	61.21	5.142			
3,700.0	3,020.1	3,648.6	3,113.1	41.3	37.4	-133.73	950.0	-1,388.7	322.7	259.9	62.78	5.140			
3,800.0	3,107.2	3,739.0	3,193.6	42.3	38.1	-133.72	973.5	-1,422.6	330.0	265.8	64.21	5.140			
3,900.0	3,196.8	3,829.3	3,275.8	43.1	38.8	-133.69	994.8	-1,453.3	336.5	271.1	65.47	5.140			
4,000.0	3,288.5	3,919.6	3,359.6	43.8	39.4	-133.65	1,013.9	-1,480.8	342.3	275.7	66.58	5.140			
4,100.0	3,382.2	4,009.8	3,444.8	44.4	40.0	-133.61	1,030.7	-1,505.0	347.2	279.7	67.54	5.141			
4,200.0	3,477.7	4,100.0	3,531.4	45.0	40.4	-133.54	1,045.1	-1,525.8	351.3	283.0	68.34	5.141			
4,300.0	3,574.5	4,190.0	3,618.9	45.4	40.8	-133.47	1,057.2	-1,543.2	354.6	285.7	68.99	5.140			
4,400.0	3,672.5	4,280.1	3,707.4	45.7	41.1	-133.38	1,067.0	-1,557.3	357.1	287.6	69.50	5.139			
4,500.0	3,771.4	4,370.2	3,796.5	46.0	41.3	-133.28	1,074.3	-1,567.8	358.8	288.9	69.88	5.135			
4,600.0	3,871.0	4,460.3	3,886.2	46.2	41.4	-133.16	1,079.2	-1,575.0	359.7	289.5	70.13	5.128			
4,700.0	3,970.9	4,550.4	3,976.2	46.3	41.5	-133.02	1,081.8	-1,578.6	359.7	289.4	70.27	5.118			
4,730.1	4,001.0	4,577.6	4,003.4	46.3	41.5	179.34	1,082.0	-1,579.0	359.5	289.2	70.29	5.114			
4,765.6	4,036.5	4,610.7	4,036.5	46.3	41.6	179.36	1,082.1	-1,579.1	359.4	289.1	70.34	5.110			
4,800.0	4,070.9	4,645.1	4,070.9	46.3	41.6	179.36	1,082.1	-1,579.1	359.4	289.0	70.37	5.107			

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Frei A - Frei A19 - Wellbore #1 - Design #1														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.0	4,170.9	4,745.1	4,170.9	46.3	41.6	179.36	1,082.1	-1,579.1	359.4	288.9	70.48	5.100		
5,000.0	4,270.9	4,845.1	4,270.9	46.4	41.7	179.36	1,082.1	-1,579.1	359.4	288.8	70.58	5.092		
5,100.0	4,370.9	4,945.1	4,370.9	46.4	41.7	179.36	1,082.1	-1,579.1	359.4	288.7	70.69	5.084		
5,200.0	4,470.9	5,045.1	4,470.9	46.5	41.8	179.36	1,082.1	-1,579.1	359.4	288.6	70.80	5.076		
5,300.0	4,570.9	5,145.1	4,570.9	46.5	41.8	179.36	1,082.1	-1,579.1	359.4	288.5	70.92	5.068		
5,400.0	4,670.9	5,245.1	4,670.9	46.6	41.9	179.36	1,082.1	-1,579.1	359.4	288.4	71.04	5.060		
5,500.0	4,770.9	5,345.1	4,770.9	46.6	41.9	179.36	1,082.1	-1,579.1	359.4	288.3	71.16	5.051		
5,600.0	4,870.9	5,445.1	4,870.9	46.6	42.0	179.36	1,082.1	-1,579.1	359.4	288.1	71.28	5.042		
5,700.0	4,970.9	5,545.1	4,970.9	46.7	42.0	179.36	1,082.1	-1,579.1	359.4	288.0	71.40	5.034		
5,800.0	5,070.9	5,645.1	5,070.9	46.7	42.1	179.36	1,082.1	-1,579.1	359.4	287.9	71.53	5.025		
5,900.0	5,170.9	5,745.1	5,170.9	46.8	42.1	179.36	1,082.1	-1,579.1	359.4	287.8	71.66	5.016		
6,000.0	5,270.9	5,845.1	5,270.9	46.8	42.2	179.36	1,082.1	-1,579.1	359.4	287.6	71.80	5.006		
6,100.0	5,370.9	5,945.1	5,370.9	46.9	42.3	179.36	1,082.1	-1,579.1	359.4	287.5	71.93	4.997		
6,200.0	5,470.9	6,045.1	5,470.9	47.0	42.3	179.36	1,082.1	-1,579.1	359.4	287.4	72.07	4.987		
6,300.0	5,570.9	6,145.1	5,570.9	47.0	42.4	179.36	1,082.1	-1,579.1	359.4	287.2	72.21	4.977		
6,400.0	5,670.9	6,245.1	5,670.9	47.1	42.5	179.36	1,082.1	-1,579.1	359.4	287.1	72.35	4.968		
6,500.0	5,770.9	6,345.1	5,770.9	47.1	42.5	179.36	1,082.1	-1,579.1	359.4	286.9	72.50	4.958		
6,600.0	5,870.9	6,445.1	5,870.9	47.2	42.6	179.36	1,082.1	-1,579.1	359.4	286.8	72.65	4.948		
6,700.0	5,970.9	6,545.1	5,970.9	47.2	42.6	179.36	1,082.1	-1,579.1	359.4	286.6	72.80	4.937		
6,800.0	6,070.9	6,645.1	6,070.9	47.3	42.7	179.36	1,082.1	-1,579.1	359.4	286.5	72.95	4.927		
6,900.0	6,170.9	6,745.1	6,170.9	47.4	42.8	179.36	1,082.1	-1,579.1	359.4	286.3	73.11	4.916		
7,000.0	6,270.9	6,845.1	6,270.9	47.4	42.9	179.36	1,082.1	-1,579.1	359.4	286.2	73.26	4.906		
7,100.0	6,370.9	6,945.1	6,370.9	47.5	42.9	179.36	1,082.1	-1,579.1	359.4	286.0	73.42	4.895		
7,200.0	6,470.9	7,045.1	6,470.9	47.5	43.0	179.36	1,082.1	-1,579.1	359.4	285.8	73.59	4.884		
7,300.0	6,570.9	7,145.1	6,570.9	47.6	43.1	179.36	1,082.1	-1,579.1	359.4	285.7	73.75	4.873		
7,400.0	6,670.9	7,245.1	6,670.9	47.7	43.1	179.36	1,082.1	-1,579.1	359.4	285.5	73.92	4.862		
7,500.0	6,770.9	7,345.1	6,770.9	47.7	43.2	179.36	1,082.1	-1,579.1	359.4	285.3	74.09	4.851		
7,554.1	6,825.0	7,399.2	6,825.0	47.8	43.3	179.36	1,082.1	-1,579.1	359.4	285.2	74.18	4.845		



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Frei A - Frei A2 - Wellbore #1 - Design #1		Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-171.50	-74.2	-11.1	75.0							
100.0	100.0	100.0	100.0	0.1	0.1	-171.50	-74.2	-11.1	75.0	74.8	0.19	394.337				
200.0	200.0	200.0	200.0	0.3	0.3	-171.50	-74.2	-11.1	75.0	74.3	0.64	117.220				
300.0	300.0	300.0	300.0	0.5	0.5	-171.50	-74.2	-11.1	75.0	73.9	1.09	68.842	CC, ES			
400.0	400.0	397.5	397.5	0.8	0.7	-126.79	-75.9	-9.3	78.0	76.5	1.52	51.305				
500.0	499.6	493.5	493.1	1.0	1.0	-134.24	-81.0	-4.1	88.3	86.3	1.99	44.406				
600.0	598.8	586.5	585.4	1.3	1.2	-142.99	-89.1	4.3	108.0	105.5	2.51	43.017	SF			
700.0	697.1	675.2	672.8	1.6	1.5	-150.59	-99.7	15.3	138.1	135.0	3.05	45.302				
800.0	794.3	758.7	754.3	2.0	1.8	-156.29	-112.3	28.3	178.4	174.8	3.58	49.867				
900.0	890.2	836.1	829.1	2.6	2.2	-160.33	-126.2	42.6	228.0	223.9	4.09	55.762				
1,000.0	984.4	907.1	896.9	3.2	2.6	-163.14	-140.7	57.6	285.9	281.3	4.58	62.388				
1,100.0	1,076.8	971.2	957.5	3.9	3.0	-165.06	-155.4	72.8	351.1	346.0	5.07	69.298				
1,200.0	1,167.1	1,028.6	1,011.0	4.8	3.4	-166.35	-169.7	87.5	422.7	417.1	5.54	76.307				
1,300.0	1,254.9	1,079.2	1,057.8	5.7	3.8	-167.17	-183.2	101.5	499.8	493.8	6.01	83.188				
1,400.0	1,340.2	1,123.4	1,098.1	6.8	4.1	-167.61	-195.7	114.4	581.6	575.2	6.49	89.664				
1,500.0	1,422.6	1,168.4	1,138.9	8.0	4.5	-167.91	-209.1	128.2	667.4	660.5	6.97	95.775				
1,600.0	1,501.9	1,214.2	1,180.3	9.3	4.9	-168.09	-222.6	142.2	755.9	748.5	7.45	101.535				
1,700.0	1,577.9	1,255.4	1,217.5	10.7	5.3	-167.97	-234.8	154.8	846.8	838.8	7.96	106.323				
1,800.0	1,650.5	1,291.6	1,250.4	12.2	5.6	-167.54	-245.6	165.9	939.7	931.2	8.54	110.035				
1,821.4	1,665.5	1,298.8	1,256.8	12.5	5.6	-167.39	-247.7	168.1	959.8	951.2	8.67	110.746				
1,900.0	1,720.5	1,324.5	1,280.1	13.8	5.9	-168.22	-255.4	176.0	1,033.9	1,024.9	9.09	113.786				
2,000.0	1,790.4	1,357.3	1,309.8	15.4	6.2	-169.12	-265.1	186.0	1,128.2	1,118.6	9.62	117.297				
2,100.0	1,860.3	1,390.1	1,339.4	17.0	6.4	-169.89	-274.8	196.0	1,222.6	1,212.4	10.15	120.499				
2,200.0	1,930.2	1,422.9	1,369.1	18.7	6.7	-170.55	-284.5	206.1	1,316.9	1,306.2	10.68	123.265				
2,300.0	2,000.1	1,455.7	1,398.8	20.3	7.0	-171.12	-294.3	216.1	1,411.3	1,400.0	11.23	125.706				
2,400.0	2,070.1	1,488.5	1,428.4	21.9	7.3	-171.62	-304.0	226.2	1,505.7	1,493.9	11.77	127.928				
2,500.0	2,140.0	1,521.3	1,458.1	23.6	7.6	-172.06	-313.7	236.2	1,600.0	1,587.7	12.32	129.892				
2,600.0	2,209.9	1,554.0	1,487.7	25.2	7.9	-172.46	-323.4	246.2	1,694.4	1,681.6	12.87	131.651				
2,700.0	2,279.8	1,586.8	1,517.4	26.9	8.2	-172.81	-333.1	256.3	1,788.8	1,775.4	13.42	133.267				
2,800.0	2,349.7	1,619.6	1,547.0	28.5	8.5	-173.13	-342.9	266.3	1,883.3	1,869.3	13.98	134.716				
2,900.0	2,419.6	1,652.4	1,576.7	30.2	8.8	-173.42	-352.6	276.3	1,977.7	1,963.1	14.54	136.027				
3,000.0	2,489.5	1,685.2	1,606.4	31.8	9.1	-173.68	-362.3	286.4	2,072.1	2,057.0	15.10	137.242				
3,100.0	2,559.5	1,718.0	1,636.0	33.4	9.4	-173.92	-372.0	296.4	2,166.5	2,150.9	15.66	138.344				
3,208.8	2,635.5	1,753.6	1,668.3	35.2	9.7	-174.16	-382.6	307.3	2,269.2	2,253.0	16.27	139.433				
3,300.0	2,700.8	1,785.6	1,697.2	36.6	10.0	-175.01	-392.1	317.1	2,354.6	2,337.8	16.82	140.032				
3,400.0	2,775.8	1,825.3	1,733.1	38.0	10.3	-175.72	-403.9	329.3	2,446.4	2,429.0	17.42	140.457				
3,500.0	2,854.2	1,869.7	1,773.3	39.2	10.7	-176.26	-417.0	342.9	2,535.9	2,517.9	18.02	140.750				
3,600.0	2,935.7	1,918.7	1,817.6	40.3	11.2	-176.67	-431.6	357.9	2,623.1	2,604.5	18.60	141.028				
3,700.0	3,020.1	1,972.3	1,866.1	41.3	11.6	-177.01	-447.5	374.3	2,707.5	2,688.3	19.16	141.338				
3,800.0	3,107.2	2,030.2	1,918.4	42.3	12.2	-177.27	-464.6	392.0	2,789.0	2,769.3	19.68	141.719				
3,900.0	3,196.8	2,092.2	1,974.6	43.1	12.7	-177.49	-483.0	411.0	2,867.4	2,847.2	20.17	142.189				
4,000.0	3,288.5	2,158.3	2,034.4	43.8	13.3	-177.67	-502.6	431.2	2,942.4	2,921.8	20.61	142.752				
4,100.0	3,382.2	2,228.2	2,097.6	44.4	13.9	-177.82	-523.4	452.6	3,013.9	2,992.9	21.01	143.425				
4,200.0	3,477.7	2,301.8	2,164.2	45.0	14.6	-177.95	-545.2	475.2	3,081.6	3,060.2	21.37	144.214				
4,300.0	3,574.5	2,378.8	2,233.8	45.4	15.3	-178.05	-568.0	498.7	3,145.3	3,123.7	21.67	145.122				
4,400.0	3,672.5	2,459.1	2,306.4	45.7	16.0	-178.14	-591.8	523.3	3,205.0	3,183.1	21.93	146.163				
4,500.0	3,771.4	2,542.3	2,381.7	46.0	16.8	-178.21	-616.5	548.8	3,260.4	3,238.2	22.13	147.343				
4,600.0	3,871.0	2,628.3	2,459.6	46.2	17.5	-178.27	-642.0	575.1	3,311.3	3,289.0	22.27	148.674				
4,700.0	3,970.9	2,716.9	2,539.7	46.3	18.3	-178.31	-668.3	602.2	3,357.7	3,335.3	22.36	150.164				
4,730.1	4,001.0	2,744.1	2,564.3	46.3	18.6	133.99	-676.4	610.6	3,370.8	3,348.4	22.38	150.646				
4,800.0	4,070.9	2,807.3	2,621.4	46.3	19.2	133.99	-695.1	629.9	3,400.5	3,377.9	22.66	150.067				
4,900.0	4,170.9	2,897.8	2,703.3	46.3	20.0	133.99	-721.9	657.6	3,443.2	3,420.1	23.07	149.224				

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Frei A - Frei A2 - Wellbore #1 - Design #1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,270.9	2,988.2	2,785.1	46.4	20.8	134.00	-748.8	685.3	3,485.8	3,462.3	23.49	148.390		
5,100.0	4,370.9	3,078.7	2,866.9	46.4	21.6	134.00	-775.6	713.0	3,528.4	3,504.5	23.91	147.567		
5,200.0	4,470.9	3,169.2	2,957.4	46.5	22.5	134.01	-1,012.5	957.6	3,532.3	3,504.5	27.79	127.104		
5,300.0	4,570.9	3,259.7	3,047.9	46.5	23.5	134.01	-1,012.5	957.6	3,532.3	3,504.3	28.05	125.925		
5,400.0	4,670.9	3,350.2	3,137.9	46.6	24.6	134.01	-1,012.5	957.6	3,532.3	3,504.0	28.32	124.747		
5,500.0	4,770.9	3,440.7	3,227.9	46.6	25.7	134.01	-1,012.5	957.6	3,532.3	3,503.8	28.59	123.572		
5,600.0	4,870.9	3,531.2	3,317.9	46.6	26.7	134.01	-1,012.5	957.6	3,532.3	3,503.5	28.86	122.399		
5,700.0	4,970.9	3,621.7	3,407.9	46.7	27.8	134.01	-1,012.5	957.6	3,532.3	3,503.2	29.14	121.230		
5,800.0	5,070.9	3,712.2	3,497.9	46.7	28.9	134.01	-1,012.5	957.6	3,532.3	3,502.9	29.42	120.066		
5,900.0	5,170.9	3,802.7	3,587.9	46.8	29.0	134.01	-1,012.5	957.6	3,532.3	3,502.6	29.71	118.908		
6,000.0	5,270.9	3,893.2	3,677.9	46.8	29.1	134.01	-1,012.5	957.6	3,532.3	3,502.3	30.00	117.757		
6,100.0	5,370.9	3,983.7	3,767.9	46.9	29.1	134.01	-1,012.5	957.6	3,532.3	3,502.0	30.29	116.612		
6,200.0	5,470.9	4,074.2	3,857.9	47.0	29.2	134.01	-1,012.5	957.6	3,532.3	3,501.8	30.59	115.476		
6,300.0	5,570.9	4,164.7	3,947.9	47.0	29.3	134.01	-1,012.5	957.6	3,532.3	3,501.4	30.89	114.348		
6,400.0	5,670.9	4,255.2	4,037.9	47.1	29.4	134.01	-1,012.5	957.6	3,532.3	3,501.1	31.20	113.229		
6,500.0	5,770.9	4,345.7	4,127.9	47.1	29.5	134.01	-1,012.5	957.6	3,532.3	3,500.8	31.51	112.119		
6,600.0	5,870.9	4,436.2	4,217.9	47.2	29.6	134.01	-1,012.5	957.6	3,532.3	3,500.5	31.82	111.020		
6,700.0	5,970.9	4,526.7	4,307.9	47.2	29.6	134.01	-1,012.5	957.6	3,532.3	3,500.2	32.13	109.930		
6,800.0	6,070.9	4,617.2	4,397.9	47.3	29.7	134.01	-1,012.5	957.6	3,532.3	3,499.9	32.45	108.851		
6,900.0	6,170.9	4,707.7	4,487.9	47.4	29.8	134.01	-1,012.5	957.6	3,532.3	3,499.6	32.77	107.784		
7,000.0	6,270.9	4,798.2	4,577.9	47.4	29.9	134.01	-1,012.5	957.6	3,532.3	3,499.2	33.10	106.727		
7,100.0	6,370.9	4,888.7	4,667.9	47.5	30.0	134.01	-1,012.5	957.6	3,532.3	3,498.9	33.42	105.682		
7,200.0	6,470.9	4,979.2	4,757.9	47.5	30.1	134.01	-1,012.5	957.6	3,532.3	3,498.6	33.75	104.648		
7,300.0	6,570.9	5,069.7	4,847.9	47.6	30.2	134.01	-1,012.5	957.6	3,532.3	3,498.3	34.09	103.626		
7,400.0	6,670.9	5,160.2	4,937.9	47.7	30.3	134.01	-1,012.5	957.6	3,532.3	3,497.9	34.42	102.617		
7,500.0	6,770.9	5,250.7	5,027.9	47.7	30.4	134.01	-1,012.5	957.6	3,532.3	3,497.6	34.76	101.619		
7,554.1	6,825.0	5,299.1	5,082.5	47.8	30.5	134.01	-1,012.5	957.6	3,532.3	3,497.4	34.94	101.084		

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 163-													Offset Well Error:	0.0 ft
Reference														
Offset														
Semi Major Axis														
Distance														
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	146.51	-28.0	18.6	33.6					
100.0	100.0	100.1	100.1	0.1	0.0	146.14	-27.8	18.7	33.5	33.4	0.10	352.253		
200.0	200.0	200.2	200.2	0.3	0.0	145.14	-27.3	19.0	33.2	32.9	0.32	103.801		
300.0	300.0	300.3	300.3	0.5	0.0	144.43	-26.4	18.9	32.4	31.9	0.54	59.521		
317.5	317.5	317.8	317.8	0.6	0.0	-168.11	-26.2	18.9	32.3	31.8	0.58	55.364 CC, ES		
400.0	400.0	400.3	400.3	0.8	0.0	-170.00	-25.2	18.9	34.1	33.3	0.77	44.307		
500.0	499.6	500.0	500.0	1.0	0.0	-172.66	-24.2	18.8	41.0	40.0	1.00	41.173 SF		
600.0	598.8	599.3	599.2	1.3	0.0	-175.12	-23.1	18.8	53.2	51.9	1.22	43.459		
700.0	697.1	697.4	697.4	1.6	0.0	-177.16	-21.9	19.0	70.6	69.1	1.46	48.443		
800.0	794.3	795.6	795.6	2.0	0.0	-178.63	-20.5	19.3	93.2	91.5	1.70	54.857		
900.0	890.2	893.1	893.0	2.6	0.0	-179.50	-18.5	18.8	119.8	117.9	1.95	61.293		
1,000.0	984.4	989.6	989.4	3.2	0.0	-179.91	-16.0	17.2	150.4	148.2	2.23	67.592		
1,100.0	1,076.8	1,085.4	1,085.3	3.9	0.0	179.79	-12.9	15.1	185.2	182.7	2.51	73.705		
1,200.0	1,167.1	1,187.0	1,186.6	4.8	0.0	179.33	-7.3	11.6	222.5	219.7	2.82	78.986		
1,300.0	1,254.9	1,287.7	1,286.7	5.7	0.0	178.81	1.9	5.3	260.4	257.3	3.14	82.905		
1,400.0	1,340.2	1,383.2	1,381.3	6.8	0.0	178.51	11.9	-2.6	301.1	297.6	3.48	86.402		
1,500.0	1,422.6	1,476.2	1,473.3	8.0	0.0	178.24	22.5	-10.8	345.5	341.6	3.85	89.785		
1,600.0	1,501.9	1,568.2	1,564.2	9.3	0.0	177.94	34.1	-19.3	393.5	389.3	4.23	93.048		
1,700.0	1,577.9	1,660.5	1,655.1	10.7	0.0	177.55	47.4	-28.1	444.9	440.3	4.63	96.107		
1,800.0	1,650.5	1,759.8	1,752.5	12.2	0.0	177.08	63.8	-38.5	499.0	493.9	5.05	98.817		
1,821.4	1,665.5	1,781.9	1,774.0	12.5	0.0	176.98	67.8	-41.1	510.7	505.5	5.14	99.326		
1,900.0	1,720.5	1,854.0	1,844.2	13.8	0.0	176.75	81.5	-50.2	553.5	547.9	5.56	99.634		
2,000.0	1,790.4	1,936.7	1,924.7	15.4	0.0	176.49	97.7	-60.9	607.4	601.3	6.09	99.757		
2,100.0	1,860.3	2,022.3	2,008.0	17.0	0.0	176.27	114.2	-71.6	661.6	655.0	6.63	99.818		
2,200.0	1,930.2	2,112.4	2,095.4	18.7	0.0	176.08	132.0	-83.5	715.2	708.0	7.17	99.701		
2,300.0	2,000.1	2,202.4	2,182.7	20.3	0.0	175.95	149.9	-96.1	768.2	760.5	7.72	99.496		
2,400.0	2,070.1	2,287.8	2,265.5	21.9	0.0	175.86	167.0	-108.6	820.7	812.4	8.27	99.235		
2,500.0	2,140.0	2,363.2	2,338.7	23.6	0.0	175.81	181.6	-119.4	873.8	865.0	8.82	99.067		
2,600.0	2,209.9	2,438.5	2,411.9	25.2	0.0	175.73	196.1	-129.3	927.8	918.5	9.37	98.972		
2,700.0	2,279.8	2,523.1	2,494.3	26.9	0.0	175.63	212.3	-139.8	982.3	972.3	9.93	98.890		
2,800.0	2,349.7	2,606.1	2,575.1	28.5	0.0	175.55	228.1	-150.3	1,036.6	1,026.1	10.49	98.805		
2,900.0	2,419.6	2,694.0	2,660.7	30.2	0.0	175.49	244.7	-161.5	1,091.0	1,079.9	11.05	98.721		
3,000.0	2,489.5	2,779.4	2,743.8	31.8	0.0	175.42	261.2	-172.7	1,145.0	1,133.4	11.61	98.600		
3,100.0	2,559.5	2,859.2	2,821.4	33.4	0.0	175.39	276.2	-183.2	1,199.1	1,186.9	12.17	98.516		
3,208.8	2,635.5	2,946.6	2,906.6	35.2	0.0	175.34	292.6	-194.2	1,258.4	1,245.6	12.78	98.448		
3,300.0	2,700.8	3,026.2	2,984.1	36.6	0.0	175.41	307.9	-204.0	1,306.3	1,293.0	13.33	98.005		
3,400.0	2,775.8	3,107.0	3,062.7	38.0	0.0	175.46	323.4	-214.0	1,354.5	1,340.7	13.87	97.678		
3,500.0	2,854.2	3,182.5	3,136.4	39.2	0.0	175.51	337.3	-223.0	1,398.8	1,384.5	14.35	97.507		
3,600.0	2,935.7	3,254.5	3,206.9	40.3	0.0	175.55	349.6	-231.2	1,439.6	1,424.8	14.76	97.525		
3,700.0	3,020.1	3,330.4	3,281.3	41.3	0.0	175.60	361.5	-239.4	1,476.8	1,461.7	15.11	97.722		
3,800.0	3,107.2	3,390.0	3,340.0	42.3	0.0	175.65	370.3	-245.6	1,510.1	1,494.8	15.39	98.097		
3,900.0	3,196.8	3,458.3	3,407.3	43.1	0.0	175.68	379.3	-251.9	1,540.4	1,524.8	15.61	98.683		
4,000.0	3,288.5	3,516.8	3,465.4	43.8	0.0	175.72	385.8	-255.9	1,568.4	1,552.6	15.76	99.540		
4,100.0	3,382.2	3,579.0	3,527.2	44.4	0.0	175.75	391.6	-259.5	1,593.4	1,577.5	15.83	100.646		
4,200.0	3,477.7	3,652.5	3,600.4	45.0	0.0	175.78	397.1	-263.0	1,615.1	1,599.3	15.84	101.990		
4,300.0	3,574.5	3,729.4	3,677.1	45.4	0.0	175.80	401.8	-266.0	1,633.2	1,617.4	15.77	103.564		
4,400.0	3,672.5	3,800.1	3,747.6	45.7	0.0	175.82	405.4	-268.2	1,647.4	1,631.8	15.63	105.373		
4,500.0	3,771.4	3,863.0	3,810.5	46.0	0.0	175.83	407.6	-269.3	1,658.6	1,643.1	15.43	107.493		
4,600.0	3,871.0	3,966.3	3,913.8	46.2	0.0	175.83	410.0	-270.6	1,665.5	1,650.3	15.16	109.883		
4,700.0	3,970.9	4,052.0	3,999.4	46.3	0.0	175.85	411.2	-272.6	1,667.0	1,652.2	14.82	112.517		
4,730.1	4,001.0	4,086.9	4,034.3	46.3	0.0	128.19	411.5	-273.5	1,666.5	1,651.8	14.70	113.370		
4,800.0	4,070.9	4,146.0	4,093.4	46.3	0.0	128.20	411.5	-274.4	1,665.6	1,650.8	14.77	112.781		

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 163-													Offset Well Error:	0.0 ft
Reference														
		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.0	4,170.9	4,234.1	4,181.6	46.3	0.0	128.22	411.4	-275.1	1,665.0	1,650.1	14.87	111.948		
5,000.0	4,270.9	4,326.9	4,274.3	46.4	0.0	128.23	411.6	-275.5	1,664.5	1,649.6	14.98	111.103		
5,100.0	4,370.9	4,425.9	4,373.3	46.4	0.0	128.21	411.9	-275.4	1,664.4	1,649.3	15.10	110.253		
5,200.0	4,470.9	4,528.3	4,475.7	46.5	0.0	128.24	411.6	-276.0	1,664.2	1,648.9	15.21	109.430		
5,300.0	4,570.9	4,628.0	4,575.4	46.5	0.0	128.29	410.6	-277.2	1,663.9	1,648.5	15.32	108.625		
5,370.8	4,641.7	4,694.3	4,641.7	46.5	0.0	128.31	410.2	-277.6	1,663.8	1,648.4	15.40	108.042		
5,400.0	4,670.9	4,722.2	4,669.7	46.6	0.0	128.31	410.0	-277.7	1,663.8	1,648.3	15.43	107.804		
5,500.0	4,770.9	4,820.5	4,767.9	46.6	0.0	128.36	408.9	-278.5	1,663.9	1,648.3	15.55	107.009		
5,600.0	4,870.9	4,913.7	4,861.1	46.6	0.0	128.41	407.6	-279.0	1,664.3	1,648.7	15.67	106.234		
5,700.0	4,970.9	5,024.5	4,971.9	46.7	0.0	128.46	406.2	-279.9	1,664.4	1,648.6	15.79	105.435		
5,709.1	4,979.9	5,032.6	4,980.0	46.7	0.0	128.47	406.1	-280.0	1,664.4	1,648.6	15.80	105.360		
5,800.0	5,070.9	5,126.0	5,073.4	46.7	0.0	128.50	405.3	-280.5	1,664.6	1,648.6	15.91	104.623		
5,900.0	5,170.9	5,236.8	5,184.2	46.8	0.0	128.54	405.0	-281.8	1,663.7	1,647.7	16.04	103.750		
6,000.0	5,270.9	5,328.1	5,275.4	46.8	0.0	128.57	404.6	-282.8	1,663.2	1,647.0	16.17	102.887		
6,100.0	5,370.9	5,424.1	5,371.4	46.9	0.0	128.58	404.5	-283.0	1,663.1	1,646.8	16.30	102.034		
6,200.0	5,470.9	5,527.1	5,474.5	47.0	0.0	128.59	404.2	-283.2	1,663.0	1,646.6	16.44	101.186		
6,300.0	5,570.9	5,626.6	5,573.9	47.0	0.0	128.65	403.0	-284.6	1,662.8	1,646.2	16.57	100.367		
6,360.3	5,631.1	5,683.8	5,631.1	47.0	0.0	128.68	402.4	-285.1	1,662.7	1,646.1	16.65	99.869		
6,400.0	5,670.9	5,720.8	5,668.2	47.1	0.0	128.69	402.2	-285.3	1,662.7	1,646.0	16.70	99.545		
6,500.0	5,770.9	5,818.0	5,765.3	47.1	0.0	128.70	401.8	-285.2	1,663.0	1,646.2	16.85	98.723		
6,600.0	5,870.9	5,912.5	5,859.8	47.2	0.0	128.69	401.6	-284.8	1,663.5	1,646.5	16.99	97.908		
6,700.0	5,970.9	6,059.1	6,006.4	47.2	0.0	128.71	401.9	-285.8	1,662.9	1,645.8	17.14	97.044		
6,800.0	6,070.9	6,159.4	6,106.7	47.3	0.0	128.70	403.5	-287.2	1,660.8	1,643.5	17.28	96.083		
6,900.0	6,170.9	6,262.1	6,209.4	47.4	0.0	128.68	405.2	-288.8	1,658.5	1,641.1	17.44	95.121		
7,000.0	6,270.9	6,357.2	6,304.5	47.4	0.0	128.66	407.0	-290.1	1,656.2	1,638.6	17.59	94.160		
7,100.0	6,370.9	6,446.8	6,394.1	47.5	0.0	128.62	408.8	-290.6	1,654.6	1,636.8	17.75	93.234		
7,200.0	6,470.9	6,543.8	6,491.0	47.5	0.0	128.56	411.0	-290.5	1,653.3	1,635.4	17.91	92.322		
7,300.0	6,570.9	6,641.2	6,588.3	47.6	0.0	128.48	413.4	-290.0	1,652.1	1,634.1	18.07	91.417		
7,400.0	6,670.9	6,736.8	6,684.0	47.7	0.0	128.39	416.1	-288.9	1,651.2	1,633.0	18.24	90.524		
7,476.2	6,747.1	6,800.0	6,747.1	47.7	0.0	128.32	418.1	-288.0	1,650.7	1,632.3	18.37	89.858		
7,500.0	6,770.9	6,800.0	6,747.1	47.7	0.0	128.32	418.1	-288.0	1,650.9	1,632.5	18.41	89.684		
7,554.1	6,825.0	6,800.0	6,747.1	47.8	0.0	128.32	418.1	-288.0	1,652.5	1,634.0	18.49	89.356		

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Frei A - Frei A23 - Wellbore #1 - Design #1		Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-171.52	-37.1	-5.5	37.5							
100.0	100.0	100.0	100.0	0.1	0.1	-171.52	-37.1	-5.5	37.5	37.3	0.19	197.157				
200.0	200.0	200.0	200.0	0.3	0.3	-171.52	-37.1	-5.5	37.5	36.9	0.64	58.607				
300.0	300.0	300.0	300.0	0.5	0.5	-171.52	-37.1	-5.5	37.5	36.4	1.09	34.419	CC, ES			
400.0	400.0	400.2	400.2	0.8	0.8	-123.17	-36.4	-8.1	38.7	37.1	1.53	25.200				
500.0	499.6	500.3	500.0	1.0	1.0	-121.38	-34.4	-15.7	42.2	40.1	2.00	21.026				
600.0	598.8	600.3	599.0	1.3	1.3	-118.96	-31.0	-28.3	48.0	45.5	2.56	18.802				
700.0	697.1	699.9	697.0	1.6	1.6	-116.41	-26.3	-45.8	56.4	53.1	3.23	17.460				
800.0	794.3	799.2	793.6	2.0	2.0	-114.03	-20.2	-68.2	67.1	63.1	4.06	16.535				
900.0	890.2	898.1	888.4	2.6	2.6	-111.93	-13.0	-95.2	80.3	75.2	5.07	15.829				
1,000.0	984.4	996.5	981.2	3.2	3.2	-110.14	-4.5	-126.8	95.8	89.5	6.28	15.258				
1,100.0	1,076.8	1,094.3	1,071.6	3.9	3.9	-108.61	5.2	-162.8	113.6	106.0	7.69	14.779				
1,200.0	1,167.1	1,191.5	1,159.5	4.8	4.8	-107.28	16.0	-202.9	133.7	124.4	9.30	14.369				
1,300.0	1,254.9	1,288.0	1,244.6	5.7	5.7	-106.12	27.8	-246.9	155.9	144.8	11.13	14.012				
1,400.0	1,340.2	1,384.6	1,327.7	6.8	6.7	-105.34	40.6	-294.4	180.1	167.0	13.14	13.706				
1,500.0	1,422.6	1,481.2	1,410.5	8.0	7.8	-105.84	53.4	-342.2	205.7	190.5	15.27	13.474				
1,600.0	1,501.9	1,577.0	1,492.8	9.3	8.9	-107.29	66.2	-389.8	233.0	215.5	17.47	13.335				
1,700.0	1,577.9	1,671.9	1,574.2	10.7	9.9	-109.31	78.8	-436.8	262.1	242.4	19.71	13.299	SF			
1,800.0	1,650.5	1,765.5	1,654.6	12.2	11.0	-111.65	91.3	-483.2	293.7	271.7	21.95	13.377				
1,821.4	1,665.5	1,785.4	1,671.6	12.5	11.2	-112.17	93.9	-493.0	300.8	278.4	22.43	13.409				
1,900.0	1,720.5	1,858.2	1,734.1	13.8	12.1	-114.67	103.6	-529.1	327.4	303.2	24.17	13.547				
2,000.0	1,790.4	1,950.8	1,813.6	15.4	13.1	-117.33	116.0	-575.0	361.9	335.6	26.33	13.744				
2,100.0	1,860.3	2,043.4	1,893.1	17.0	14.2	-119.52	128.3	-620.9	397.0	368.5	28.46	13.948				
2,200.0	1,930.2	2,136.0	1,972.6	18.7	15.2	-121.37	140.7	-666.9	432.5	402.0	30.57	14.150				
2,300.0	2,000.1	2,228.7	2,052.0	20.3	16.3	-122.94	153.0	-712.8	468.4	435.8	32.65	14.345				
2,400.0	2,070.1	2,321.3	2,131.5	21.9	17.3	-124.28	165.3	-758.7	504.6	469.8	34.72	14.531				
2,500.0	2,140.0	2,413.9	2,211.0	23.6	18.4	-125.45	177.7	-804.6	540.9	504.1	36.78	14.705				
2,600.0	2,209.9	2,506.5	2,290.5	25.2	19.4	-126.48	190.0	-850.5	577.4	538.6	38.84	14.869				
2,700.0	2,279.8	2,599.1	2,370.0	26.9	20.5	-127.38	202.4	-896.4	614.1	573.2	40.88	15.023				
2,800.0	2,349.7	2,691.8	2,449.5	28.5	21.6	-128.18	214.7	-942.3	650.9	608.0	42.92	15.166				
2,900.0	2,419.6	2,784.4	2,529.0	30.2	22.6	-128.90	227.0	-988.2	687.8	642.8	44.95	15.301				
3,000.0	2,489.5	2,877.0	2,608.5	31.8	23.7	-129.54	239.4	-1,034.1	724.8	677.8	46.98	15.427				
3,100.0	2,559.5	2,969.6	2,688.0	33.4	24.7	-130.12	251.7	-1,080.1	761.8	712.8	49.01	15.544				
3,208.8	2,635.5	3,070.4	2,774.4	35.2	25.9	-130.69	265.1	-1,130.0	802.2	751.0	51.21	15.664				
3,300.0	2,700.8	3,155.5	2,847.5	36.6	26.9	-131.80	276.5	-1,172.2	834.7	781.8	52.93	15.770				
3,400.0	2,775.8	3,250.0	2,928.6	38.0	27.9	-132.62	289.1	-1,219.0	867.3	812.4	54.84	15.815				
3,500.0	2,854.2	3,345.6	3,010.6	39.2	29.0	-133.09	301.8	-1,266.4	896.5	839.6	56.84	15.771				
3,600.0	2,935.7	3,440.7	3,092.3	40.3	30.1	-133.24	314.5	-1,313.6	922.3	863.4	58.90	15.658				
3,700.0	3,020.1	3,524.2	3,165.0	41.3	30.9	-133.33	325.1	-1,353.1	945.5	884.8	60.66	15.587				
3,800.0	3,107.2	3,608.2	3,239.9	42.3	31.6	-133.40	335.0	-1,389.8	966.6	904.4	62.23	15.534				
3,900.0	3,196.8	3,692.5	3,316.7	43.1	32.3	-133.45	344.0	-1,423.4	985.7	922.1	63.63	15.490				
4,000.0	3,288.5	3,777.3	3,395.4	43.8	32.8	-133.47	352.2	-1,453.9	1,002.6	937.7	64.88	15.454				
4,100.0	3,382.2	3,862.5	3,475.8	44.4	33.3	-133.48	359.5	-1,481.0	1,017.3	951.4	65.96	15.423				
4,200.0	3,477.7	3,948.0	3,557.7	45.0	33.8	-133.47	365.9	-1,504.8	1,029.8	962.9	66.89	15.396				
4,300.0	3,574.5	4,033.9	3,640.9	45.4	34.1	-133.43	371.3	-1,525.0	1,040.1	972.4	67.66	15.373				
4,400.0	3,672.5	4,120.0	3,725.3	45.7	34.4	-133.37	375.8	-1,541.7	1,048.1	979.8	68.27	15.351				
4,500.0	3,771.4	4,200.0	3,804.3	46.0	34.7	-133.30	379.1	-1,553.9	1,053.8	985.1	68.72	15.334				
4,600.0	3,871.0	4,293.0	3,896.7	46.2	34.9	-133.18	381.8	-1,564.0	1,057.2	988.1	69.06	15.307				
4,700.0	3,970.9	4,379.8	3,983.3	46.3	35.0	-133.05	383.3	-1,569.6	1,058.2	989.0	69.25	15.282				
4,730.1	4,001.0	4,406.0	4,009.5	46.3	35.0	179.31	383.5	-1,570.5	1,058.1	988.8	69.28	15.272				
4,800.0	4,070.9	4,467.4	4,070.9	46.3	35.0	179.36	383.8	-1,571.3	1,057.8	988.5	69.38	15.246				
4,900.0	4,170.9	4,567.4	4,170.9	46.3	35.1	179.36	383.8	-1,571.3	1,057.8	988.3	69.49	15.223				

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Frei A - Frei A23 - Wellbore #1 - Design #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD															Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor					
5,000.0	4,270.9	4,667.4	4,270.9	46.4	35.1	179.36	383.8	-1,571.3	1,057.8	988.2	69.60	15.199					
5,100.0	4,370.9	4,767.4	4,370.9	46.4	35.2	179.36	383.8	-1,571.3	1,057.8	988.1	69.71	15.174					
5,200.0	4,470.9	4,867.4	4,470.9	46.5	35.3	179.36	383.8	-1,571.3	1,057.8	988.0	69.83	15.149					
5,300.0	4,570.9	4,967.4	4,570.9	46.5	35.3	179.36	383.8	-1,571.3	1,057.8	987.9	69.95	15.123					
5,400.0	4,670.9	5,067.4	4,670.9	46.6	35.4	179.36	383.8	-1,571.3	1,057.8	987.8	70.07	15.097					
5,500.0	4,770.9	5,167.4	4,770.9	46.6	35.5	179.36	383.8	-1,571.3	1,057.8	987.6	70.19	15.070					
5,600.0	4,870.9	5,267.4	4,870.9	46.6	35.5	179.36	383.8	-1,571.3	1,057.8	987.5	70.32	15.043					
5,700.0	4,970.9	5,367.4	4,970.9	46.7	35.6	179.36	383.8	-1,571.3	1,057.8	987.4	70.45	15.015					
5,800.0	5,070.9	5,467.4	5,070.9	46.7	35.7	179.36	383.8	-1,571.3	1,057.8	987.3	70.58	14.987					
5,900.0	5,170.9	5,567.4	5,170.9	46.8	35.7	179.36	383.8	-1,571.3	1,057.8	987.1	70.72	14.959					
6,000.0	5,270.9	5,667.4	5,270.9	46.8	35.8	179.36	383.8	-1,571.3	1,057.8	987.0	70.85	14.930					
6,100.0	5,370.9	5,767.4	5,370.9	46.9	35.9	179.36	383.8	-1,571.3	1,057.8	986.8	70.99	14.900					
6,200.0	5,470.9	5,867.4	5,470.9	47.0	35.9	179.36	383.8	-1,571.3	1,057.8	986.7	71.14	14.870					
6,300.0	5,570.9	5,967.4	5,570.9	47.0	36.0	179.36	383.8	-1,571.3	1,057.8	986.6	71.28	14.840					
6,400.0	5,670.9	6,067.4	5,670.9	47.1	36.1	179.36	383.8	-1,571.3	1,057.8	986.4	71.43	14.810					
6,500.0	5,770.9	6,167.4	5,770.9	47.1	36.2	179.36	383.8	-1,571.3	1,057.8	986.3	71.58	14.779					
6,600.0	5,870.9	6,267.4	5,870.9	47.2	36.2	179.36	383.8	-1,571.3	1,057.8	986.1	71.73	14.747					
6,700.0	5,970.9	6,367.4	5,970.9	47.2	36.3	179.36	383.8	-1,571.3	1,057.8	985.9	71.89	14.715					
6,800.0	6,070.9	6,467.4	6,070.9	47.3	36.4	179.36	383.8	-1,571.3	1,057.8	985.8	72.04	14.683					
6,900.0	6,170.9	6,567.4	6,170.9	47.4	36.5	179.36	383.8	-1,571.3	1,057.8	985.6	72.20	14.651					
7,000.0	6,270.9	6,667.4	6,270.9	47.4	36.6	179.36	383.8	-1,571.3	1,057.8	985.5	72.37	14.618					
7,100.0	6,370.9	6,767.4	6,370.9	47.5	36.7	179.36	383.8	-1,571.3	1,057.8	985.3	72.53	14.584					
7,200.0	6,470.9	6,867.4	6,470.9	47.5	36.7	179.36	383.8	-1,571.3	1,057.8	985.1	72.70	14.551					
7,300.0	6,570.9	6,967.4	6,570.9	47.6	36.8	179.36	383.8	-1,571.3	1,057.8	985.0	72.87	14.517					
7,400.0	6,670.9	7,067.4	6,670.9	47.7	36.9	179.36	383.8	-1,571.3	1,057.8	984.8	73.04	14.483					
7,500.0	6,770.9	7,167.4	6,770.9	47.7	37.0	179.36	383.8	-1,571.3	1,057.8	984.6	73.21	14.448					
7,554.1	6,825.0	7,221.5	6,825.0	47.8	37.0	179.36	383.8	-1,571.3	1,057.8	984.5	73.31	14.430					

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-171.50	-49.5	-7.4	50.0						
100.0	100.0	100.0	100.0	0.1	0.1	-171.50	-49.5	-7.4	50.0	49.8	0.19	263.040			
200.0	200.0	200.0	200.0	0.3	0.3	-171.50	-49.5	-7.4	50.0	49.4	0.64	78.191			
300.0	300.0	300.0	300.0	0.5	0.5	-171.50	-49.5	-7.4	50.0	48.9	1.09	45.921 CC, ES			
400.0	400.0	399.8	399.7	0.8	0.8	-123.31	-49.3	-10.0	51.7	50.2	1.53	33.755			
500.0	499.6	499.3	499.0	1.0	1.0	-121.94	-48.8	-17.8	56.7	54.7	2.00	28.343			
600.0	598.8	598.6	597.3	1.3	1.3	-120.11	-47.9	-30.6	65.1	62.6	2.55	25.545			
700.0	697.1	697.3	694.4	1.6	1.6	-118.18	-46.7	-48.5	76.9	73.7	3.21	23.932			
800.0	794.3	795.3	789.8	2.0	2.0	-116.37	-45.2	-71.1	92.1	88.1	4.03	22.873			
900.0	890.2	892.5	883.1	2.6	2.5	-114.75	-43.4	-98.4	110.6	105.5	5.00	22.089			
1,000.0	984.4	988.8	974.0	3.2	3.2	-113.33	-41.3	-130.0	132.2	126.1	6.16	21.462			
1,100.0	1,076.8	1,084.0	1,062.2	3.9	3.9	-112.07	-39.0	-165.7	157.0	149.5	7.50	20.937			
1,200.0	1,167.1	1,178.1	1,147.5	4.8	4.7	-110.93	-36.4	-205.3	184.9	175.8	9.02	20.486			
1,300.0	1,254.9	1,270.9	1,229.6	5.7	5.5	-109.88	-33.5	-248.4	215.6	204.9	10.72	20.107			
1,400.0	1,340.2	1,365.1	1,311.7	6.8	6.5	-109.37	-30.5	-294.4	248.7	236.1	12.59	19.745			
1,500.0	1,422.6	1,458.6	1,393.3	8.0	7.5	-109.73	-27.4	-340.1	283.4	268.9	14.56	19.474			
1,600.0	1,501.9	1,551.1	1,473.9	9.3	8.5	-110.66	-24.4	-385.2	320.1	303.5	16.59	19.295			
1,700.0	1,577.9	1,642.3	1,553.4	10.7	9.4	-111.91	-21.5	-429.8	358.9	340.3	18.68	19.216			
1,800.0	1,650.5	1,731.9	1,631.6	12.2	10.4	-113.33	-18.6	-473.5	400.2	379.4	20.80	19.239			
1,821.4	1,665.5	1,750.8	1,648.1	12.5	10.6	-113.65	-18.0	-482.8	409.3	388.1	21.26	19.257			
1,900.0	1,720.5	1,820.2	1,708.6	13.8	11.4	-115.68	-15.7	-516.7	443.4	420.5	22.94	19.333			
2,000.0	1,790.4	1,908.6	1,785.7	15.4	12.3	-117.86	-12.9	-559.9	487.4	462.4	25.05	19.458			
2,100.0	1,860.3	1,996.9	1,862.7	17.0	13.3	-119.69	-10.0	-603.0	531.9	504.7	27.14	19.599			
2,200.0	1,930.2	2,085.3	1,939.7	18.7	14.2	-121.24	-7.2	-646.2	576.7	547.5	29.21	19.744			
2,300.0	2,000.1	2,173.6	2,016.8	20.3	15.2	-122.57	-4.3	-689.3	621.9	590.6	31.27	19.889			
2,400.0	2,070.1	2,262.0	2,093.8	21.9	16.1	-123.73	-1.4	-732.5	667.2	633.9	33.31	20.030			
2,500.0	2,140.0	2,350.3	2,170.9	23.6	17.1	-124.74	1.4	-775.6	712.8	677.5	35.35	20.166			
2,600.0	2,209.9	2,438.7	2,247.9	25.2	18.0	-125.63	4.3	-818.8	758.5	721.2	37.38	20.295			
2,700.0	2,279.8	2,527.0	2,324.9	26.9	19.0	-126.42	7.1	-861.9	804.4	765.0	39.40	20.417			
2,800.0	2,349.7	2,615.4	2,402.0	28.5	19.9	-127.12	10.0	-905.1	850.4	808.9	41.42	20.532			
2,900.0	2,419.6	2,703.7	2,479.0	30.2	20.9	-127.76	12.8	-948.3	896.4	853.0	43.43	20.641			
3,000.0	2,489.5	2,792.0	2,556.0	31.8	21.8	-128.33	15.7	-991.4	942.5	897.1	45.44	20.744			
3,100.0	2,559.5	2,880.4	2,633.1	33.4	22.8	-128.85	18.6	-1,034.6	988.7	941.3	47.44	20.840			
3,208.8	2,635.5	2,976.5	2,716.8	35.2	23.8	-129.36	21.7	-1,081.5	1,039.1	989.4	49.62	20.939			
3,300.0	2,700.8	3,057.8	2,787.8	36.6	24.7	-130.71	24.3	-1,121.2	1,080.1	1,028.7	51.31	21.048			
3,400.0	2,775.8	3,148.5	2,866.9	38.0	25.7	-131.84	27.2	-1,165.6	1,122.1	1,068.9	53.14	21.114			
3,500.0	2,854.2	3,240.7	2,947.2	39.2	26.7	-132.64	30.2	-1,210.5	1,160.9	1,105.9	55.03	21.097			
3,600.0	2,935.7	3,333.9	3,028.5	40.3	27.7	-133.16	33.2	-1,256.1	1,196.4	1,139.5	56.95	21.009			
3,700.0	3,020.1	3,428.0	3,110.6	41.3	28.7	-133.41	36.3	-1,302.1	1,228.7	1,169.8	58.91	20.858			
3,800.0	3,107.2	3,518.5	3,189.8	42.3	29.6	-133.48	39.2	-1,345.8	1,257.7	1,197.0	60.74	20.705			
3,900.0	3,196.8	3,606.3	3,268.2	43.1	30.4	-133.54	41.8	-1,385.0	1,283.9	1,221.6	62.31	20.604			
4,000.0	3,288.5	3,695.2	3,349.5	43.8	31.0	-133.57	44.1	-1,421.0	1,307.4	1,243.6	63.72	20.517			
4,100.0	3,382.2	3,785.1	3,433.3	44.4	31.6	-133.57	46.3	-1,453.6	1,327.9	1,263.0	64.96	20.443			
4,200.0	3,477.7	3,876.1	3,519.5	45.0	32.1	-133.55	48.2	-1,482.4	1,345.5	1,279.5	66.02	20.380			
4,300.0	3,574.5	3,968.0	3,607.9	45.4	32.6	-133.51	49.9	-1,507.4	1,360.2	1,293.3	66.92	20.325			
4,400.0	3,672.5	4,060.6	3,698.2	45.7	32.9	-133.44	51.3	-1,528.3	1,371.8	1,304.1	67.65	20.279			
4,500.0	3,771.4	4,154.0	3,790.0	46.0	33.2	-133.34	52.4	-1,544.9	1,380.3	1,312.1	68.20	20.237			
4,600.0	3,871.0	4,247.8	3,883.1	46.2	33.4	-133.22	53.2	-1,557.0	1,385.6	1,317.0	68.60	20.200			
4,700.0	3,970.9	4,342.1	3,977.0	46.3	33.6	-133.08	53.7	-1,564.6	1,387.8	1,319.0	68.83	20.162			
4,730.1	4,001.0	4,370.6	4,005.5	46.3	33.6	179.29	53.7	-1,566.0	1,387.9	1,319.0	68.88	20.150			
4,800.0	4,070.9	4,436.7	4,071.6	46.3	33.7	179.36	53.9	-1,567.5	1,387.8	1,318.8	69.00	20.113			
4,838.4	4,109.2	4,474.4	4,109.2	46.3	33.7	179.36	53.9	-1,567.6	1,387.8	1,318.7	69.04	20.100			

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Frei A - Frei A24 - Wellbore #1 - Design #1														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.0	4,170.9	4,536.0	4,170.9	46.3	33.7	179.36	53.9	-1,567.6	1,387.8	1,318.6	69.11	20.081		
5,000.0	4,270.9	4,636.0	4,270.9	46.4	33.8	179.36	53.9	-1,567.6	1,387.8	1,318.5	69.22	20.049		
5,100.0	4,370.9	4,736.0	4,370.9	46.4	33.8	179.36	53.9	-1,567.6	1,387.8	1,318.4	69.33	20.016		
5,200.0	4,470.9	4,836.0	4,470.9	46.5	33.9	179.36	53.9	-1,567.6	1,387.8	1,318.3	69.45	19.982		
5,300.0	4,570.9	4,936.0	4,570.9	46.5	34.0	179.36	53.9	-1,567.6	1,387.8	1,318.2	69.57	19.948		
5,400.0	4,670.9	5,036.0	4,670.9	46.6	34.0	179.36	53.9	-1,567.6	1,387.8	1,318.1	69.69	19.913		
5,500.0	4,770.9	5,136.0	4,770.9	46.6	34.1	179.36	53.9	-1,567.6	1,387.8	1,317.9	69.81	19.878		
5,600.0	4,870.9	5,236.0	4,870.9	46.6	34.2	179.36	53.9	-1,567.6	1,387.8	1,317.8	69.94	19.842		
5,700.0	4,970.9	5,336.0	4,970.9	46.7	34.2	179.36	53.9	-1,567.6	1,387.8	1,317.7	70.07	19.805		
5,800.0	5,070.9	5,436.0	5,070.9	46.7	34.3	179.36	53.9	-1,567.6	1,387.8	1,317.5	70.20	19.767		
5,900.0	5,170.9	5,536.0	5,170.9	46.8	34.4	179.36	53.9	-1,567.6	1,387.8	1,317.4	70.34	19.729		
6,000.0	5,270.9	5,636.0	5,270.9	46.8	34.4	179.36	53.9	-1,567.6	1,387.8	1,317.3	70.48	19.691		
6,100.0	5,370.9	5,736.0	5,370.9	46.9	34.5	179.36	53.9	-1,567.6	1,387.8	1,317.1	70.62	19.652		
6,200.0	5,470.9	5,836.0	5,470.9	47.0	34.6	179.36	53.9	-1,567.6	1,387.8	1,317.0	70.76	19.612		
6,300.0	5,570.9	5,936.0	5,570.9	47.0	34.7	179.36	53.9	-1,567.6	1,387.8	1,316.8	70.91	19.572		
6,400.0	5,670.9	6,036.0	5,670.9	47.1	34.8	179.36	53.9	-1,567.6	1,387.8	1,316.7	71.05	19.531		
6,500.0	5,770.9	6,136.0	5,770.9	47.1	34.8	179.36	53.9	-1,567.6	1,387.8	1,316.5	71.21	19.489		
6,600.0	5,870.9	6,236.0	5,870.9	47.2	34.9	179.36	53.9	-1,567.6	1,387.8	1,316.4	71.36	19.448		
6,700.0	5,970.9	6,336.0	5,970.9	47.2	35.0	179.36	53.9	-1,567.6	1,387.8	1,316.2	71.51	19.405		
6,800.0	6,070.9	6,436.0	6,070.9	47.3	35.1	179.36	53.9	-1,567.6	1,387.8	1,316.1	71.67	19.362		
6,900.0	6,170.9	6,536.0	6,170.9	47.4	35.2	179.36	53.9	-1,567.6	1,387.8	1,315.9	71.83	19.319		
7,000.0	6,270.9	6,636.0	6,270.9	47.4	35.2	179.36	53.9	-1,567.6	1,387.8	1,315.8	72.00	19.275		
7,100.0	6,370.9	6,736.0	6,370.9	47.5	35.3	179.36	53.9	-1,567.6	1,387.8	1,315.6	72.16	19.231		
7,200.0	6,470.9	6,836.0	6,470.9	47.5	35.4	179.36	53.9	-1,567.6	1,387.8	1,315.4	72.33	19.186		
7,300.0	6,570.9	6,936.0	6,570.9	47.6	35.5	179.36	53.9	-1,567.6	1,387.8	1,315.3	72.50	19.141		
7,400.0	6,670.9	7,036.0	6,670.9	47.7	35.6	179.36	53.9	-1,567.6	1,387.8	1,315.1	72.67	19.096		
7,500.0	6,770.9	7,136.0	6,770.9	47.7	35.7	179.36	53.9	-1,567.6	1,387.8	1,314.9	72.85	19.050		
7,554.1	6,825.0	7,190.1	6,825.0	47.8	35.7	179.36	53.9	-1,567.6	1,387.8	1,314.8	72.94	19.025 SF		



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 ft
Frei A - Frei A3 - Wellbore #1 - Design #1														Offset Well Error:	0.0 ft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-171.51	-86.5	-12.9	87.5						
100.0	100.0	100.0	100.0	0.1	0.1	-171.51	-86.5	-12.9	87.5	87.3	0.19	459.985			
200.0	200.0	200.0	200.0	0.3	0.3	-171.51	-86.5	-12.9	87.5	86.8	0.64	136.735			
300.0	300.0	300.0	300.0	0.5	0.5	-171.51	-86.5	-12.9	87.5	86.4	1.09	80.303 CC, ES			
400.0	400.0	396.5	396.5	0.8	0.7	-126.13	-88.5	-11.5	90.8	89.3	1.52	59.824			
500.0	499.6	491.6	491.3	1.0	0.9	-132.00	-94.4	-7.4	101.7	99.8	1.98	51.305			
600.0	598.8	583.8	582.7	1.3	1.2	-139.09	-103.7	-0.8	121.7	119.2	2.50	48.721 SF			
700.0	697.1	671.8	669.5	1.6	1.5	-145.53	-116.0	7.9	151.7	148.7	3.04	49.958			
800.0	794.3	754.7	750.5	2.0	1.8	-150.57	-130.5	18.2	191.6	188.0	3.58	53.572			
900.0	890.2	831.8	825.0	2.6	2.2	-154.23	-146.6	29.5	240.6	236.5	4.11	58.579			
1,000.0	984.4	900.0	890.2	3.2	2.5	-156.68	-162.9	41.0	297.8	293.2	4.62	64.400			
1,100.0	1,076.8	966.7	953.2	3.9	3.0	-158.52	-180.6	53.5	362.3	357.1	5.15	70.344			
1,200.0	1,167.1	1,024.1	1,006.9	4.8	3.4	-159.61	-197.3	65.3	433.1	427.4	5.67	76.366			
1,300.0	1,254.9	1,074.9	1,053.8	5.7	3.7	-160.18	-213.2	76.5	509.5	503.3	6.21	82.107			
1,400.0	1,340.2	1,119.4	1,094.5	6.8	4.1	-160.30	-227.9	86.9	590.7	584.0	6.76	87.346			
1,500.0	1,422.6	1,157.7	1,129.2	8.0	4.4	-159.99	-241.2	96.3	676.0	668.7	7.37	91.785			
1,600.0	1,501.9	1,200.0	1,167.1	9.3	4.8	-159.59	-256.6	107.2	764.9	756.9	8.03	95.276			
1,700.0	1,577.9	1,217.6	1,182.7	10.7	4.9	-157.86	-263.1	111.8	856.5	847.6	8.85	96.735			
1,800.0	1,650.5	1,245.1	1,207.1	12.2	5.2	-156.03	-273.6	119.2	950.4	940.6	9.81	96.861			
1,821.4	1,665.5	1,251.5	1,212.7	12.5	5.2	-155.59	-276.1	120.9	970.7	960.7	10.04	96.651			
1,900.0	1,720.5	1,274.4	1,233.0	13.8	5.4	-156.84	-284.8	127.1	1,045.6	1,035.1	10.53	99.334			
2,000.0	1,790.4	1,303.6	1,258.7	15.4	5.7	-158.20	-296.0	135.0	1,140.9	1,129.8	11.13	102.550			
2,100.0	1,860.3	1,332.8	1,284.5	17.0	6.0	-159.37	-307.1	142.8	1,236.3	1,224.6	11.72	105.452			
2,200.0	1,930.2	1,361.9	1,310.3	18.7	6.3	-160.38	-318.2	150.7	1,331.7	1,319.4	12.31	108.187			
2,300.0	2,000.1	1,391.1	1,336.1	20.3	6.5	-161.26	-329.4	158.6	1,427.1	1,414.2	12.88	110.773			
2,400.0	2,070.1	1,420.3	1,361.9	21.9	6.8	-162.04	-340.5	166.4	1,522.6	1,509.1	13.46	113.083			
2,500.0	2,140.0	1,449.4	1,387.7	23.6	7.1	-162.72	-351.6	174.3	1,618.1	1,604.0	14.05	115.182			
2,600.0	2,209.9	1,478.6	1,413.5	25.2	7.4	-163.34	-362.8	182.2	1,713.6	1,698.9	14.63	117.146			
2,700.0	2,279.8	1,507.8	1,439.2	26.9	7.7	-163.89	-373.9	190.0	1,809.1	1,793.9	15.21	118.965			
2,800.0	2,349.7	1,536.9	1,465.0	28.5	7.9	-164.38	-385.1	197.9	1,904.6	1,888.8	15.79	120.609			
2,900.0	2,419.6	1,566.1	1,490.8	30.2	8.2	-164.83	-396.2	205.8	2,000.1	1,983.8	16.37	122.150			
3,000.0	2,489.5	1,595.3	1,516.6	31.8	8.5	-165.24	-407.3	213.6	2,095.7	2,078.7	16.96	123.598			
3,100.0	2,559.5	1,624.5	1,542.4	33.4	8.8	-165.62	-418.5	221.5	2,191.3	2,173.7	17.54	124.916			
3,208.8	2,635.5	1,656.2	1,570.4	35.2	9.1	-165.99	-430.6	230.0	2,295.2	2,277.0	18.18	126.252			
3,300.0	2,700.8	1,684.9	1,595.8	36.6	9.4	-166.08	-441.5	237.8	2,381.7	2,363.5	18.22	130.713			
3,400.0	2,775.8	1,721.0	1,627.7	38.0	9.7	-169.75	-455.3	247.5	2,474.9	2,456.5	18.46	134.038			
3,500.0	2,854.2	1,761.9	1,663.9	39.2	10.1	-170.99	-471.0	258.5	2,566.1	2,547.3	18.83	136.272			
3,600.0	2,935.7	1,807.5	1,704.2	40.3	10.5	-171.92	-488.4	270.8	2,655.1	2,635.9	19.26	137.886			
3,700.0	3,020.1	1,857.7	1,748.5	41.3	11.0	-172.65	-507.5	284.4	2,741.6	2,721.9	19.71	139.118			
3,800.0	3,107.2	1,912.3	1,796.8	42.3	11.6	-173.22	-528.4	299.1	2,825.4	2,805.2	20.16	140.164			
3,900.0	3,196.8	1,971.1	1,848.8	43.1	12.1	-173.67	-550.9	315.0	2,906.2	2,885.6	20.60	141.102			
4,000.0	3,288.5	2,034.1	1,904.5	43.8	12.7	-174.03	-574.9	332.0	2,983.8	2,962.8	21.01	142.010			
4,100.0	3,382.2	2,101.0	1,963.7	44.4	13.4	-174.32	-600.5	350.0	3,058.1	3,036.7	21.40	142.931			
4,200.0	3,477.7	2,171.7	2,026.2	45.0	14.1	-174.55	-627.5	369.1	3,128.8	3,107.0	21.74	143.885			
4,300.0	3,574.5	2,246.0	2,091.8	45.4	14.8	-174.74	-655.8	389.1	3,195.7	3,173.6	22.05	144.906			
4,400.0	3,672.5	2,323.6	2,160.5	45.7	15.6	-174.88	-685.5	410.0	3,258.6	3,236.3	22.32	146.009			
4,500.0	3,771.4	2,404.4	2,231.9	46.0	16.3	-174.98	-716.3	431.8	3,317.4	3,294.9	22.54	147.211			
4,600.0	3,871.0	2,488.1	2,305.8	46.2	17.2	-175.06	-748.3	454.4	3,371.9	3,349.2	22.70	148.521			
4,700.0	3,970.9	2,574.5	2,382.2	46.3	18.0	-175.11	-781.3	477.7	3,422.0	3,399.2	22.82	149.955			
4,730.1	4,001.0	2,601.0	2,405.7	46.3	18.3	137.20	-791.4	484.8	3,436.2	3,413.3	22.85	150.413			
4,800.0	4,070.9	2,662.8	2,460.3	46.3	18.9	137.27	-815.0	501.5	3,468.6	3,445.5	23.15	149.823			
4,900.0	4,170.9	2,751.2	2,538.4	46.3	19.7	137.37	-848.7	525.3	3,515.1	3,491.5	23.60	148.971			

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Frei A - Frei A3 - Wellbore #1 - Design #1														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,270.9	2,839.6	2,616.6	46.4	20.6	137.46	-882.5	549.1	3,561.5	3,537.5	24.04	148.138		
5,100.0	4,370.9	2,928.0	2,694.7	46.4	21.5	137.56	-916.3	573.0	3,608.0	3,583.5	24.49	147.323		
5,200.0	4,470.9	4,799.6	4,470.9	46.5	30.5	138.47	-1,292.2	838.5	3,652.1	3,622.8	29.31	124.610		
5,300.0	4,570.9	4,899.6	4,570.9	46.5	30.6	138.47	-1,292.2	838.5	3,652.1	3,622.5	29.55	123.581		
5,400.0	4,670.9	4,999.6	4,670.9	46.6	30.6	138.47	-1,292.2	838.5	3,652.1	3,622.3	29.80	122.549		
5,500.0	4,770.9	5,099.6	4,770.9	46.6	30.7	138.47	-1,292.2	838.5	3,652.1	3,622.0	30.05	121.516		
5,600.0	4,870.9	5,199.6	4,870.9	46.6	30.8	138.47	-1,292.2	838.5	3,652.1	3,621.8	30.31	120.481		
5,700.0	4,970.9	5,299.6	4,970.9	46.7	30.8	138.47	-1,292.2	838.5	3,652.1	3,621.5	30.57	119.447		
5,800.0	5,070.9	5,399.6	5,070.9	46.7	30.9	138.47	-1,292.2	838.5	3,652.1	3,621.2	30.84	118.414		
5,900.0	5,170.9	5,499.6	5,170.9	46.8	31.0	138.47	-1,292.2	838.5	3,652.1	3,621.0	31.11	117.383		
6,000.0	5,270.9	5,599.6	5,270.9	46.8	31.1	138.47	-1,292.2	838.5	3,652.1	3,620.7	31.39	116.354		
6,100.0	5,370.9	5,699.6	5,370.9	46.9	31.1	138.47	-1,292.2	838.5	3,652.1	3,620.4	31.67	115.329		
6,200.0	5,470.9	5,799.6	5,470.9	47.0	31.2	138.47	-1,292.2	838.5	3,652.1	3,620.1	31.95	114.308		
6,300.0	5,570.9	5,899.6	5,570.9	47.0	31.3	138.47	-1,292.2	838.5	3,652.1	3,619.8	32.24	113.291		
6,400.0	5,670.9	5,999.6	5,670.9	47.1	31.4	138.47	-1,292.2	838.5	3,652.1	3,619.5	32.53	112.280		
6,500.0	5,770.9	6,099.6	5,770.9	47.1	31.4	138.47	-1,292.2	838.5	3,652.1	3,619.3	32.82	111.274		
6,600.0	5,870.9	6,199.6	5,870.9	47.2	31.5	138.47	-1,292.2	838.5	3,652.1	3,619.0	33.12	110.275		
6,700.0	5,970.9	6,299.6	5,970.9	47.2	31.6	138.47	-1,292.2	838.5	3,652.1	3,618.7	33.42	109.282		
6,800.0	6,070.9	6,399.6	6,070.9	47.3	31.7	138.47	-1,292.2	838.5	3,652.1	3,618.4	33.72	108.297		
6,900.0	6,170.9	6,499.6	6,170.9	47.4	31.8	138.47	-1,292.2	838.5	3,652.1	3,618.0	34.03	107.319		
7,000.0	6,270.9	6,599.6	6,270.9	47.4	31.8	138.47	-1,292.2	838.5	3,652.1	3,617.7	34.34	106.348		
7,100.0	6,370.9	6,699.6	6,370.9	47.5	31.9	138.47	-1,292.2	838.5	3,652.1	3,617.4	34.65	105.386		
7,200.0	6,470.9	6,799.6	6,470.9	47.5	32.0	138.47	-1,292.2	838.5	3,652.1	3,617.1	34.97	104.433		
7,300.0	6,570.9	6,899.6	6,570.9	47.6	32.1	138.47	-1,292.2	838.5	3,652.1	3,616.8	35.29	103.488		
7,400.0	6,670.9	6,999.6	6,670.9	47.7	32.2	138.47	-1,292.2	838.5	3,652.1	3,616.5	35.61	102.552		
7,500.0	6,770.9	7,099.6	6,770.9	47.7	32.3	138.47	-1,292.2	838.5	3,652.1	3,616.1	35.94	101.625		
7,554.1	6,825.0	7,153.7	6,825.0	47.8	32.3	138.47	-1,292.2	838.5	3,652.1	3,616.0	36.11	101.126		

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-171.50	-98.9	-14.8	100.0						
100.0	100.0	100.0	100.0	0.1	0.1	-171.50	-98.9	-14.8	100.0	99.8	0.19	525.845			
200.0	200.0	200.0	200.0	0.3	0.3	-171.50	-98.9	-14.8	100.0	99.4	0.64	156.313			
300.0	300.0	300.0	300.0	0.5	0.5	-171.50	-98.9	-14.8	100.0	98.9	1.09	91.801 CC, ES			
400.0	400.0	395.8	395.8	0.8	0.7	-125.73	-101.0	-13.6	103.5	101.9	1.52	68.220			
500.0	499.6	490.2	489.9	1.0	0.9	-130.66	-107.0	-10.0	114.5	112.5	1.98	57.873			
600.0	598.8	581.8	580.8	1.3	1.2	-136.81	-116.8	-4.2	134.4	132.0	2.49	53.964 SF			
700.0	697.1	669.4	667.1	1.6	1.5	-142.59	-129.5	3.3	164.1	161.0	3.03	54.122			
800.0	794.3	752.0	747.8	2.0	1.8	-147.29	-144.7	12.3	203.4	199.8	3.58	56.830			
900.0	890.2	828.8	822.1	2.6	2.2	-150.80	-161.5	22.2	251.7	247.6	4.12	61.051			
1,000.0	984.4	900.0	890.2	3.2	2.5	-153.32	-179.4	32.8	308.2	303.6	4.67	66.073			
1,100.0	1,076.8	963.5	950.2	3.9	2.9	-154.98	-197.1	43.3	372.0	366.8	5.21	71.412			
1,200.0	1,167.1	1,021.0	1,004.0	4.8	3.3	-156.02	-214.7	53.7	442.2	436.5	5.76	76.738			
1,300.0	1,254.9	1,072.1	1,051.2	5.7	3.7	-156.52	-231.4	63.6	518.0	511.7	6.34	81.743			
1,400.0	1,340.2	1,116.8	1,092.1	6.8	4.0	-156.54	-247.0	72.8	598.6	591.7	6.95	86.173			
1,500.0	1,422.6	1,155.5	1,127.2	8.0	4.4	-156.08	-261.1	81.1	683.4	675.8	7.62	89.722			
1,600.0	1,501.9	1,200.0	1,167.1	9.3	4.7	-155.59	-278.1	91.1	771.8	763.4	8.36	92.313			
1,700.0	1,577.9	1,216.2	1,181.5	10.7	4.9	-153.50	-284.5	94.9	862.9	853.6	9.29	92.866			
1,800.0	1,650.5	1,238.9	1,201.5	12.2	5.1	-151.05	-293.6	100.3	956.5	946.0	10.45	91.529			
1,821.4	1,665.5	1,243.1	1,205.3	12.5	5.1	-150.38	-295.3	101.3	976.7	966.0	10.74	90.908			
1,900.0	1,720.5	1,258.0	1,218.3	13.8	5.3	-151.31	-301.4	104.9	1,051.6	1,040.3	11.34	92.729			
2,000.0	1,790.4	1,275.8	1,233.9	15.4	5.4	-152.32	-308.9	109.3	1,147.1	1,135.0	12.10	94.824			
2,100.0	1,860.3	1,300.0	1,254.9	17.0	5.7	-153.54	-319.2	115.4	1,243.0	1,230.2	12.78	97.279			
2,200.0	1,930.2	1,300.0	1,254.9	18.7	5.7	-153.54	-319.2	115.4	1,339.1	1,325.5	13.65	98.108			
2,300.0	2,000.1	1,323.2	1,275.0	20.3	5.9	-154.58	-329.3	121.4	1,435.5	1,421.1	14.32	100.245			
2,400.0	2,070.1	1,337.3	1,287.0	21.9	6.1	-155.14	-335.5	125.1	1,532.1	1,517.0	15.05	101.772			
2,500.0	2,140.0	1,350.6	1,298.4	23.6	6.2	-155.64	-341.4	128.6	1,628.9	1,613.1	15.78	103.195			
2,600.0	2,209.9	1,363.2	1,309.1	25.2	6.3	-156.09	-347.1	132.0	1,725.9	1,709.4	16.51	104.525			
2,700.0	2,279.8	1,375.2	1,319.3	26.9	6.5	-156.49	-352.6	135.2	1,823.0	1,805.8	17.24	105.768			
2,800.0	2,349.7	1,400.0	1,340.2	28.5	6.7	-157.24	-364.1	142.0	1,920.4	1,902.6	17.84	107.659			
2,900.0	2,419.6	1,400.0	1,340.2	30.2	6.7	-157.24	-364.1	142.0	2,017.8	1,999.1	18.65	108.167			
3,000.0	2,489.5	1,400.0	1,340.2	31.8	6.7	-157.24	-364.1	142.0	2,115.4	2,095.9	19.47	108.640			
3,100.0	2,559.5	1,400.0	1,340.2	33.4	6.7	-157.24	-364.1	142.0	2,213.2	2,192.9	20.29	109.082			
3,208.8	2,635.5	1,427.7	1,363.3	35.2	7.0	-157.99	-377.2	149.8	2,319.5	2,298.6	20.92	110.893			
3,300.0	2,700.8	1,436.8	1,370.8	36.6	7.1	-162.20	-381.6	152.3	2,408.4	2,388.4	19.98	120.557			
3,400.0	2,775.8	1,448.4	1,380.4	38.0	7.3	-165.35	-387.3	155.7	2,504.8	2,485.3	19.54	128.219			
3,500.0	2,854.2	1,461.6	1,391.3	39.2	7.4	-167.58	-393.7	159.5	2,599.9	2,580.5	19.44	133.731			
3,600.0	2,935.7	1,500.0	1,422.6	40.3	7.9	-169.22	-412.9	170.8	2,693.9	2,674.3	19.56	137.740			
3,700.0	3,020.1	1,500.0	1,422.6	41.3	7.9	-170.45	-412.9	170.8	2,785.8	2,766.1	19.71	141.346			
3,800.0	3,107.2	1,510.0	1,430.6	42.3	8.0	-171.43	-417.9	173.8	2,876.1	2,856.2	19.90	144.529			
3,900.0	3,196.8	1,530.2	1,446.9	43.1	8.2	-172.19	-428.3	179.9	2,964.5	2,944.4	20.11	147.398			
4,000.0	3,288.5	1,580.9	1,487.5	43.8	8.8	-172.74	-454.5	195.4	3,050.6	3,030.3	20.38	149.690			
4,100.0	3,382.2	1,635.9	1,531.5	44.4	9.5	-173.16	-482.9	212.2	3,134.0	3,113.4	20.64	151.864			
4,200.0	3,477.7	1,695.2	1,578.9	45.0	10.3	-173.48	-513.5	230.3	3,214.4	3,193.5	20.87	154.000			
4,300.0	3,574.5	1,758.4	1,629.6	45.4	11.0	-173.72	-546.1	249.6	3,291.6	3,270.5	21.09	156.070			
4,400.0	3,672.5	1,825.6	1,683.3	45.7	11.9	-173.91	-580.7	270.0	3,365.4	3,344.1	21.28	158.155			
4,500.0	3,771.4	1,896.4	1,740.0	46.0	12.8	-174.05	-617.3	291.6	3,435.6	3,414.2	21.44	160.258			
4,600.0	3,871.0	1,970.7	1,799.5	46.2	13.7	-174.14	-655.6	314.3	3,502.1	3,480.5	21.57	162.386			
4,700.0	3,970.9	2,048.2	1,861.6	46.3	14.7	-174.20	-695.6	337.9	3,564.5	3,542.9	21.66	164.573			
4,730.1	4,001.0	2,072.2	1,880.8	46.3	15.0	138.10	-708.0	345.3	3,582.5	3,560.9	21.68	165.245			
4,800.0	4,070.9	2,128.1	1,925.5	46.3	15.7	138.23	-736.9	362.3	3,623.9	3,601.9	22.01	164.677			
4,900.0	4,170.9	2,208.2	1,989.6	46.3	16.7	138.41	-778.2	386.7	3,683.1	3,660.6	22.48	163.857			

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Frei A - Frei A4 - Wellbore #1 - Design #1														
Reference				Offset			Semi Major Axis		Distance					Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,270.9	2,288.2	2,053.7	46.4	17.7	138.59	-819.5	411.1	3,742.3	3,719.4	22.95	163.059		
5,100.0	4,370.9	2,368.3	2,117.8	46.4	18.7	138.75	-860.8	435.6	3,801.6	3,778.2	23.43	162.284		
5,200.0	4,470.9	2,448.3	2,181.8	46.5	19.7	138.92	-902.1	460.0	3,860.9	3,837.0	23.90	161.535		
5,300.0	4,570.9	2,528.4	2,245.9	46.5	20.7	139.08	-943.4	484.4	3,920.2	3,895.8	24.38	160.810		
5,400.0	4,670.9	2,608.4	2,310.0	46.6	21.7	139.23	-984.7	508.8	3,979.5	3,954.6	24.86	160.108		
5,500.0	4,770.9	5,302.5	4,770.9	46.6	38.1	141.33	-1,701.6	932.6	4,025.9	3,993.4	32.46	124.022		
5,600.0	4,870.9	5,402.5	4,870.9	46.6	38.2	141.33	-1,701.6	932.6	4,025.9	3,993.2	32.70	123.126		
5,700.0	4,970.9	5,502.5	4,970.9	46.7	38.2	141.33	-1,701.6	932.6	4,025.9	3,993.0	32.94	122.226		
5,800.0	5,070.9	5,602.5	5,070.9	46.7	38.3	141.33	-1,701.6	932.6	4,025.9	3,992.7	33.18	121.323		
5,900.0	5,170.9	5,702.5	5,170.9	46.8	38.3	141.33	-1,701.6	932.6	4,025.9	3,992.5	33.43	120.418		
6,000.0	5,270.9	5,802.5	5,270.9	46.8	38.4	141.33	-1,701.6	932.6	4,025.9	3,992.2	33.69	119.511		
6,100.0	5,370.9	5,902.5	5,370.9	46.9	38.4	141.33	-1,701.6	932.6	4,025.9	3,992.0	33.94	118.605		
6,200.0	5,470.9	6,002.5	5,470.9	47.0	38.5	141.33	-1,701.6	932.6	4,025.9	3,991.7	34.21	117.698		
6,300.0	5,570.9	6,102.5	5,570.9	47.0	38.6	141.33	-1,701.6	932.6	4,025.9	3,991.4	34.47	116.791		
6,400.0	5,670.9	6,202.5	5,670.9	47.1	38.6	141.33	-1,701.6	932.6	4,025.9	3,991.2	34.74	115.886		
6,500.0	5,770.9	6,302.5	5,770.9	47.1	38.7	141.33	-1,701.6	932.6	4,025.9	3,990.9	35.01	114.983		
6,600.0	5,870.9	6,402.5	5,870.9	47.2	38.8	141.33	-1,701.6	932.6	4,025.9	3,990.6	35.29	114.082		
6,700.0	5,970.9	6,502.5	5,970.9	47.2	38.8	141.33	-1,701.6	932.6	4,025.9	3,990.3	35.57	113.183		
6,800.0	6,070.9	6,602.5	6,070.9	47.3	38.9	141.33	-1,701.6	932.6	4,025.9	3,990.1	35.85	112.288		
6,900.0	6,170.9	6,702.5	6,170.9	47.4	39.0	141.33	-1,701.6	932.6	4,025.9	3,989.8	36.14	111.397		
7,000.0	6,270.9	6,802.5	6,270.9	47.4	39.0	141.33	-1,701.6	932.6	4,025.9	3,989.5	36.43	110.509		
7,100.0	6,370.9	6,902.5	6,370.9	47.5	39.1	141.33	-1,701.6	932.6	4,025.9	3,989.2	36.72	109.626		
7,200.0	6,470.9	7,002.5	6,470.9	47.5	39.2	141.33	-1,701.6	932.6	4,025.9	3,988.9	37.02	108.748		
7,300.0	6,570.9	7,102.5	6,570.9	47.6	39.2	141.33	-1,701.6	932.6	4,025.9	3,988.6	37.32	107.875		
7,400.0	6,670.9	7,202.5	6,670.9	47.7	39.3	141.33	-1,701.6	932.6	4,025.9	3,988.3	37.62	107.008		
7,500.0	6,770.9	7,302.5	6,770.9	47.7	39.4	141.33	-1,701.6	932.6	4,025.9	3,988.0	37.93	106.146		
7,554.1	6,825.0	7,356.6	6,825.0	47.8	39.4	141.33	-1,701.6	932.6	4,025.9	3,987.8	38.09	105.681		

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 129-													Offset Well Error:	0.0 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	127.59	-15.7	20.4	25.7					
100.0	100.0	99.9	99.9	0.1	0.0	126.97	-15.6	20.7	26.0	25.9	0.10	272.542		
200.0	200.0	199.8	199.8	0.3	0.0	124.25	-14.9	21.9	26.5	26.2	0.32	82.885		
300.0	300.0	299.5	299.4	0.5	0.0	117.60	-12.8	24.4	27.6	27.0	0.54	50.614		
400.0	400.0	398.9	398.6	0.8	0.0	154.72	-8.0	29.6	33.1	32.3	0.77	43.045 SF		
500.0	499.6	496.9	496.0	1.0	0.0	146.40	-0.2	37.2	45.6	44.6	0.99	45.919		
600.0	598.8	593.5	591.3	1.3	0.0	141.31	10.6	47.7	65.8	64.5	1.24	53.104		
700.0	697.1	686.8	682.7	1.6	0.0	138.36	24.0	61.1	93.2	91.6	1.52	61.295		
800.0	794.3	776.0	769.1	2.0	0.0	136.63	39.4	77.2	127.9	126.0	1.85	68.965		
900.0	890.2	862.9	852.1	2.6	0.0	135.16	57.5	95.5	169.0	166.8	2.26	74.915		
1,000.0	984.4	942.5	926.6	3.2	0.0	133.61	77.5	115.2	217.0	214.3	2.74	79.122		
1,100.0	1,076.8	1,022.3	999.9	3.9	0.0	132.20	99.9	137.0	270.5	267.2	3.32	81.417		
1,200.0	1,167.1	1,096.1	1,066.9	4.8	0.0	131.00	122.1	158.8	328.8	324.8	4.00	82.256		
1,300.0	1,254.9	1,163.4	1,127.4	5.7	0.0	130.01	142.4	180.2	391.9	387.2	4.77	82.155		
1,400.0	1,340.2	1,226.3	1,182.8	6.8	0.0	128.82	162.6	201.9	459.9	454.2	5.66	81.211		
1,500.0	1,422.6	1,297.9	1,245.1	8.0	0.0	127.64	187.2	227.2	530.9	524.2	6.67	79.606		
1,600.0	1,501.9	1,366.4	1,304.4	9.3	0.0	126.40	211.7	251.2	604.0	596.2	7.80	77.449		
1,700.0	1,577.9	1,431.8	1,361.0	10.7	0.0	125.14	235.3	274.0	679.3	670.3	9.05	75.039		
1,800.0	1,650.5	1,494.3	1,414.9	12.2	0.0	123.75	258.2	295.8	756.8	746.3	10.44	72.458		
1,821.4	1,665.5	1,506.9	1,425.7	12.5	0.0	123.43	262.9	300.2	773.6	762.8	10.76	71.886		
1,900.0	1,720.5	1,551.3	1,464.0	13.8	0.0	124.62	279.4	315.7	835.8	824.1	11.70	71.423		
2,000.0	1,790.4	1,608.7	1,513.4	15.4	0.0	125.96	300.4	335.9	915.3	902.4	12.89	71.029		
2,100.0	1,860.3	1,671.8	1,567.7	17.0	0.0	127.20	323.6	358.1	994.9	980.8	14.05	70.815		
2,200.0	1,930.2	1,729.2	1,617.1	18.7	0.0	128.15	344.9	378.1	1,074.5	1,059.3	15.22	70.581		
2,300.0	2,000.1	1,784.0	1,664.3	20.3	0.0	128.96	364.9	397.4	1,154.4	1,138.0	16.39	70.418		
2,400.0	2,070.1	1,845.3	1,717.2	21.9	0.0	129.79	386.9	419.1	1,234.5	1,217.0	17.54	70.391		
2,500.0	2,140.0	1,908.6	1,772.1	23.6	0.0	130.55	409.6	441.3	1,314.6	1,295.9	18.67	70.408		
2,600.0	2,209.9	1,973.0	1,827.7	25.2	0.0	131.20	433.0	463.7	1,394.4	1,374.6	19.80	70.410		
2,700.0	2,279.8	2,026.8	1,874.2	26.9	0.0	131.70	452.5	482.4	1,474.4	1,453.4	20.96	70.345		
2,800.0	2,349.7	2,080.5	1,920.8	28.5	0.0	132.17	471.5	501.2	1,554.6	1,532.5	22.10	70.338		
2,900.0	2,419.6	2,140.0	1,972.4	30.2	0.0	132.65	492.5	522.2	1,634.9	1,611.7	23.23	70.386		
3,000.0	2,489.5	2,207.9	2,031.1	31.8	0.0	133.12	516.9	546.0	1,715.2	1,690.9	24.34	70.466		
3,100.0	2,559.5	2,275.3	2,089.2	33.4	0.0	133.51	541.7	569.3	1,795.1	1,769.6	25.47	70.490		
3,208.8	2,635.5	2,334.1	2,140.1	35.2	0.0	133.83	563.2	589.6	1,882.1	1,855.4	26.71	70.466		
3,300.0	2,700.8	2,387.6	2,186.5	36.6	0.0	136.54	582.2	608.2	1,954.2	1,927.5	26.76	73.039		
3,400.0	2,775.8	2,453.5	2,243.6	38.0	0.0	139.03	605.8	631.1	2,031.1	2,004.4	26.76	75.912		
3,500.0	2,854.2	2,554.0	2,331.2	39.2	0.0	141.03	641.5	665.1	2,104.8	2,078.0	26.80	78.542		
3,600.0	2,935.7	2,650.1	2,415.4	40.3	0.0	142.61	675.8	696.3	2,174.6	2,147.7	26.89	80.869		
3,700.0	3,020.1	2,735.2	2,490.6	41.3	0.0	143.93	705.1	723.1	2,240.8	2,213.9	26.97	83.072		
3,800.0	3,107.2	2,805.8	2,553.7	42.3	0.0	145.10	728.0	745.1	2,303.8	2,276.8	27.02	85.267		
3,900.0	3,196.8	2,896.2	2,634.8	43.1	0.0	146.00	756.5	773.1	2,363.5	2,336.4	27.09	87.253		
4,000.0	3,288.5	2,982.7	2,712.5	43.8	0.0	146.71	783.8	799.5	2,419.2	2,392.1	27.15	89.105		
4,100.0	3,382.2	3,127.3	2,843.4	44.4	0.0	146.99	828.2	842.0	2,470.6	2,443.3	27.35	90.348		
4,200.0	3,477.7	3,335.7	3,035.9	45.0	0.0	146.89	887.3	895.2	2,515.4	2,487.7	27.65	90.963		
4,300.0	3,574.5	3,494.8	3,187.2	45.4	0.0	147.02	924.3	928.0	2,552.1	2,524.3	27.77	91.908		
4,400.0	3,672.5	3,745.3	3,431.6	45.7	0.0	147.09	962.7	966.0	2,580.8	2,552.9	27.84	92.693		
4,500.0	3,771.4	3,997.7	3,682.0	46.0	0.0	147.26	985.8	985.7	2,598.8	2,571.0	27.80	93.493		
4,600.0	3,871.0	4,242.1	3,926.3	46.2	0.0	147.58	989.9	987.7	2,607.1	2,579.5	27.60	94.442		
4,700.0	3,970.9	4,339.3	4,023.5	46.3	0.0	147.65	990.3	985.8	2,608.6	2,581.1	27.48	94.910		
4,730.1	4,001.0	4,380.6	4,064.8	46.3	0.0	99.96	990.4	984.8	2,608.1	2,580.6	27.45	95.009		
4,800.0	4,070.9	4,467.3	4,151.5	46.3	0.0	99.98	990.2	982.3	2,606.1	2,578.6	27.48	94.824		
4,900.0	4,170.9	4,564.2	4,248.4	46.3	0.0	100.01	989.2	979.0	2,602.9	2,575.4	27.52	94.570		

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 Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 129-													Offset Well Error:	0.0 ft
Reference														
		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,270.9	4,647.9	4,332.0	46.4	0.0	100.05	987.8	976.5	2,600.3	2,572.7	27.56	94.343		
5,100.0	4,370.9	4,732.8	4,416.8	46.4	0.0	100.09	986.6	974.5	2,598.2	2,570.6	27.61	94.119		
5,200.0	4,470.9	4,817.6	4,501.6	46.5	0.0	100.12	985.1	973.0	2,596.7	2,569.1	27.65	93.918		
5,300.0	4,570.9	4,902.0	4,586.0	46.5	0.0	100.15	983.9	972.0	2,595.8	2,568.1	27.70	93.717		
5,400.0	4,670.9	4,996.0	4,680.0	46.6	0.0	100.18	982.9	971.4	2,595.4	2,567.6	27.75	93.518		
5,500.0	4,770.9	5,091.0	4,775.0	46.6	0.0	100.20	982.1	971.1	2,595.2	2,567.4	27.81	93.313		
5,523.4	4,794.3	5,110.3	4,794.3	46.6	0.0	100.20	982.0	971.0	2,595.2	2,567.4	27.83	93.260		
5,600.0	4,870.9	5,176.9	4,860.9	46.6	0.0	100.20	982.1	971.2	2,595.3	2,567.5	27.88	93.079		
5,700.0	4,970.9	5,287.5	4,971.4	46.7	0.0	100.18	982.6	971.5	2,595.6	2,567.6	27.96	92.825		
5,800.0	5,070.9	5,393.2	5,077.2	46.7	0.0	100.18	982.9	971.4	2,595.4	2,567.3	28.04	92.563		
5,900.0	5,170.9	5,495.2	5,179.2	46.8	0.0	100.15	984.1	971.4	2,595.2	2,567.0	28.13	92.260		
6,000.0	5,270.9	5,597.8	5,281.8	46.8	0.0	100.11	985.9	971.2	2,594.6	2,566.4	28.23	91.920		
6,065.9	5,336.8	5,652.8	5,336.8	46.9	0.0	100.10	986.7	971.2	2,594.5	2,566.2	28.29	91.716		
6,100.0	5,370.9	5,681.3	5,365.2	46.9	0.0	100.09	987.0	971.3	2,594.5	2,566.2	28.32	91.618		
6,200.0	5,470.9	5,771.2	5,455.2	47.0	0.0	100.07	987.8	971.9	2,595.1	2,566.6	28.41	91.343		
6,300.0	5,570.9	5,883.0	5,567.0	47.0	0.0	100.05	988.8	972.4	2,595.3	2,566.8	28.50	91.050		
6,400.0	5,670.9	5,980.8	5,664.7	47.1	0.0	100.04	989.0	972.6	2,595.5	2,567.0	28.59	90.783		
6,500.0	5,770.9	6,084.8	5,768.7	47.1	0.0	100.00	990.8	973.1	2,595.7	2,567.0	28.70	90.453		
6,600.0	5,870.9	6,179.7	5,863.6	47.2	0.0	99.96	992.5	973.5	2,595.8	2,567.0	28.80	90.120		
6,700.0	5,970.9	6,265.1	5,949.0	47.2	0.0	99.94	993.2	974.1	2,596.4	2,567.5	28.90	89.838		
6,800.0	6,070.9	6,350.5	6,034.4	47.3	0.0	99.95	992.6	975.0	2,597.5	2,568.5	28.98	89.616		
6,900.0	6,170.9	6,437.9	6,121.8	47.4	0.0	99.96	992.1	976.4	2,599.1	2,570.0	29.07	89.400		
7,000.0	6,270.9	6,541.1	6,224.9	47.4	0.0	99.95	992.3	978.7	2,601.3	2,572.1	29.17	89.171		
7,100.0	6,370.9	6,694.7	6,378.5	47.5	0.0	99.92	993.2	979.6	2,601.7	2,572.4	29.28	88.862		
7,200.0	6,470.9	6,788.3	6,472.1	47.5	0.0	99.91	993.8	979.5	2,601.5	2,572.1	29.38	88.550		
7,267.5	6,538.4	6,855.5	6,539.3	47.6	0.0	99.89	994.6	979.6	2,601.4	2,572.0	29.45	88.325		
7,300.0	6,570.9	6,870.0	6,553.8	47.6	0.0	99.89	994.8	979.7	2,601.5	2,572.0	29.49	88.227		
7,400.0	6,670.9	6,870.0	6,553.8	47.7	0.0	99.89	994.8	979.7	2,604.1	2,574.5	29.58	88.023		
7,500.0	6,770.9	6,870.0	6,553.8	47.7	0.0	99.89	994.8	979.7	2,610.5	2,580.8	29.68	87.945		
7,554.1	6,825.0	6,870.0	6,553.8	47.8	0.0	99.89	994.8	979.7	2,615.5	2,585.8	29.74	87.955		

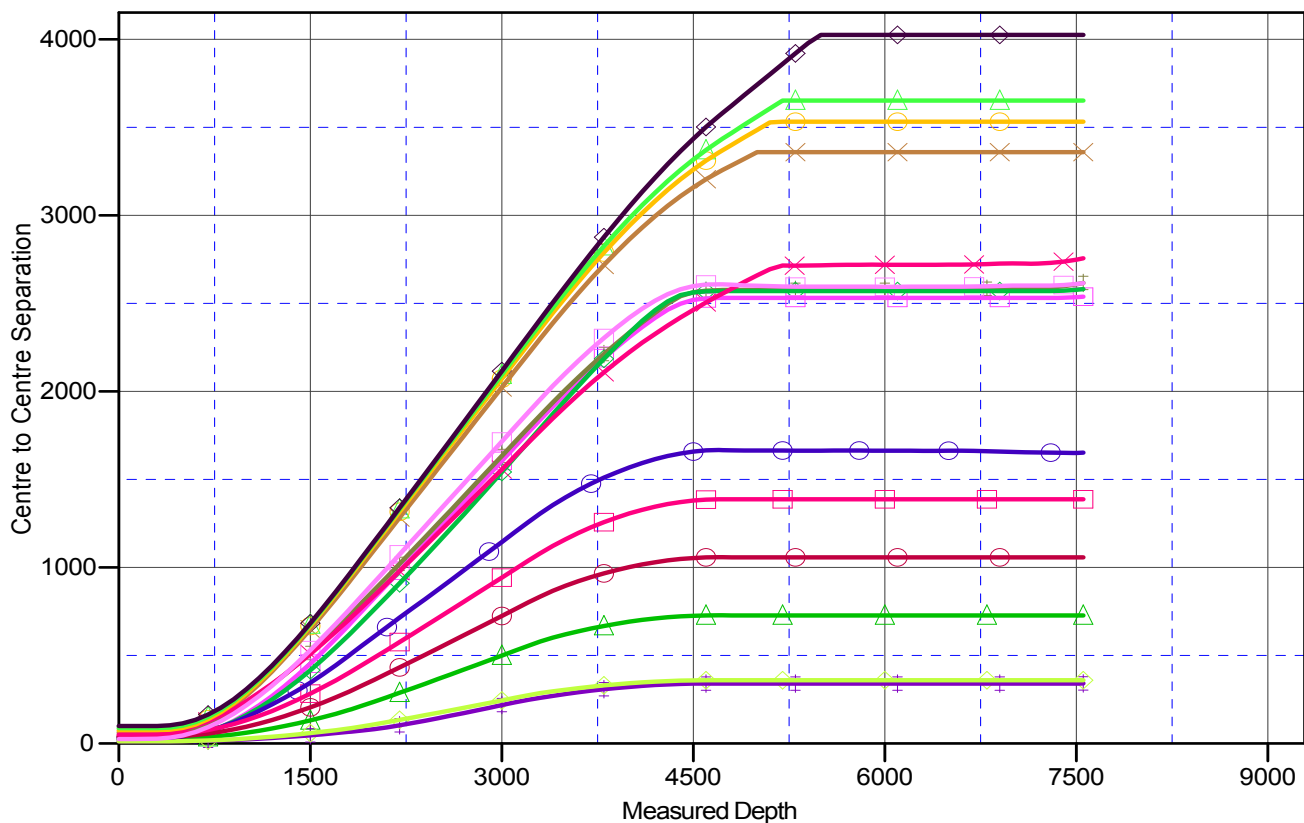
**Company:** Ursa Operating Company, LLC  
**Project:** Rockies Region  
**Reference Site:** Frei A  
**Site Error:** 0.0ft  
**Reference Well:** Frei A20  
**Well Error:** 0.0ft  
**Reference Wellbore** Wellbore #1  
**Reference Design:** Design #1

**Local Co-ordinate Reference:** Well Frei A20  
**TVD Reference:** Frei A20 @ 5611.9ft (PAD KB ELEV)  
**MD Reference:** Frei A20 @ 5611.9ft (PAD KB ELEV)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM 2003.21 Single User Db  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to Frei A20 @ 5611.9ft (PAD KB ELEV)  
Offset Depths are relative to Offset Datum  
Central Meridian is 105° 30' 0.000 W °

Coordinates are relative to: Frei A20  
Coordinate System is US State Plane 1983, Colorado Central Zone  
Grid Convergence at Surface is: -1.33°

## Ladder Plot



## LEGEND

- |                                       |                                       |                                       |
|---------------------------------------|---------------------------------------|---------------------------------------|
| ✕ Frei A1, Wellbore #1, Design #1 V0  | ✕ Frei A16, Wellbore #1, Actual V0    | ⊖ Frei A23, Wellbore #1, Design #1 V0 |
| ⊖ Frei A10, Wellbore #1, Design #1 V0 | ✕ Frei A18, Wellbore #1, Design #1 V0 | ⊖ Frei A24, Wellbore #1, Design #1 V0 |
| ✕ Frei A11, Wellbore #1, Actual V0    | ✕ Frei A19, Wellbore #1, Design #1 V0 | ✕ Frei A3, Wellbore #1, Design #1 V0  |
| ✕ Frei A12, Wellbore #1, Design #1 V0 | ✕ Frei A2, Wellbore #1, Design #1 V0  | ✕ Frei A4, Wellbore #1, Design #1 V0  |
| ✕ Frei A14, Wellbore #1, Design #1 V0 | ⊖ Frei A21, Wellbore #1, Actual V0    | ⊖ Frei A9, Wellbore #1, Actual V0     |

<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Frei A20
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Reference Site:</b>	Frei A	<b>MD Reference:</b>	Frei A20 @ 5611.9ft (PAD KB ELEV)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frei A20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to Frei A20 @ 5611.9ft (PAD KB ELEV)

Offset Depths are relative to Offset Datum

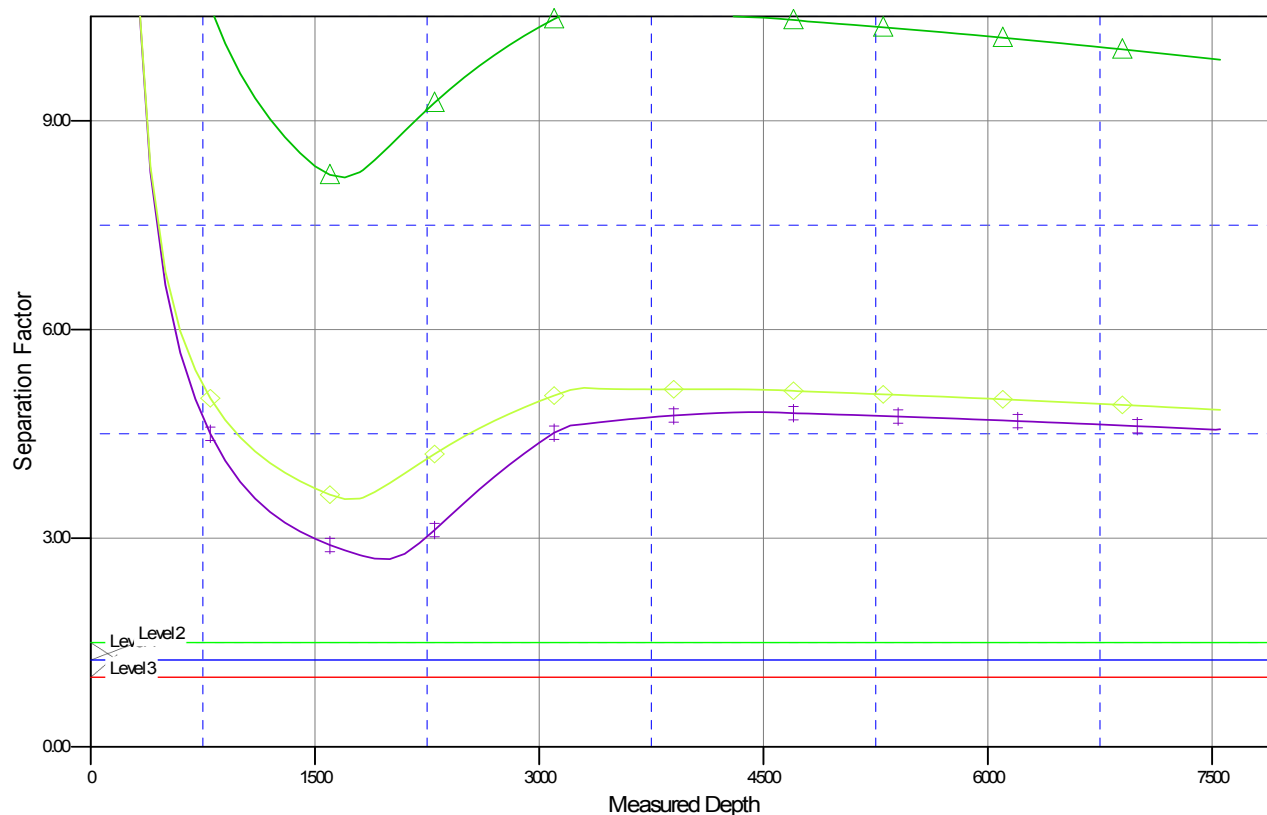
Central Meridian is 105° 30' 0.000 W °

Coordinates are relative to: Frei A20

Coordinate System is US State Plane 1983, Colorado Central Zone

Grid Convergence at Surface is: -1.33°

### Separation Factor Plot



### LEGEND

✕ Frei A1, Wellbore #1, Design #1 V0	✕ Frei A16, Wellbore #1, Actual V0	✕ Frei A23, Wellbore #1, Design #1 V0
✕ Frei A10, Wellbore #1, Design #1 V0	✕ Frei A18, Wellbore #1, Design #1 V0	✕ Frei A24, Wellbore #1, Design #1 V0
✕ Frei A11, Wellbore #1, Actual V0	✕ Frei A19, Wellbore #1, Design #1 V0	✕ Frei A3, Wellbore #1, Design #1 V0
✕ Frei A12, Wellbore #1, Design #1 V0	✕ Frei A2, Wellbore #1, Design #1 V0	✕ Frei A4, Wellbore #1, Design #1 V0
✕ Frei A14, Wellbore #1, Design #1 V0	✕ Frei A21, Wellbore #1, Actual V0	✕ Frei A9, Wellbore #1, Actual V0