



Ursa Operating Company, LLC

Rockies Region

Valley Farms G

Valley Farms G 42A-14-06-92

Wellbore #1

Plan: Design #1

Standard Planning Report

10 May, 2015



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Company:	Ursa Operating Company, LLC	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Project:	Rockies Region	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site:	Valley Farms G	North Reference:	True
Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site	Valley Farms G				
Site Position:		Northing:	1,624,165.22 usft	Latitude:	39° 31' 39.977 N
From:	Lat/Long	Easting:	2,399,120.26 usft	Longitude:	107° 37' 49.521 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.34 °

Well	Valley Farms G 42A-14-06-92, SHL: 39.527716585 -107.630422687					
Well Position	+N/-S	-20.0 usft	Northing:	1,624,145.23 usft	Latitude:	39° 31' 39.780 N
	+E/-W	-0.1 usft	Easting:	2,399,119.71 usft	Longitude:	107° 37' 49.522 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	5,640.0 usft	Ground Level:	5,623.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/3/2015	9.69	65.72	51,924

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	43.83	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,075.0	0.00	0.00	1,075.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,175.0	3.50	80.00	1,174.9	0.5	3.0	3.50	3.50	0.00	80.00	
1,693.3	20.83	43.29	1,680.0	70.9	82.4	3.50	3.34	-7.08	-43.06	
4,419.3	20.83	43.29	4,227.9	776.5	747.1	0.00	0.00	0.00	0.00	
5,113.6	0.00	0.00	4,907.0	867.4	832.7	3.00	-3.00	0.00	180.00	Valley Farms G 42A-1
7,598.6	0.00	0.00	7,392.0	867.4	832.7	0.00	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Company:	Ursa Operating Company, LLC	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Project:	Rockies Region	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site:	Valley Farms G	North Reference:	True
Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Surface Casing									
1,075.0	0.00	0.00	1,075.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 3.50									
1,100.0	0.88	80.00	1,100.0	0.0	0.2	0.2	3.50	3.50	0.00
1,175.0	3.50	80.00	1,174.9	0.5	3.0	2.5	3.50	3.50	0.00
Start DLS 3.50 TFO -43.06									
1,200.0	4.18	71.78	1,199.9	0.9	4.6	3.9	3.50	2.73	-32.88
1,300.0	7.33	55.91	1,299.4	5.7	13.4	13.3	3.50	3.15	-15.87
1,400.0	10.70	49.75	1,398.1	15.2	25.7	28.8	3.50	3.37	-6.16
1,500.0	14.13	46.53	1,495.8	29.6	41.7	50.3	3.50	3.43	-3.22
1,600.0	17.59	44.56	1,591.9	48.8	61.2	77.6	3.50	3.46	-1.98
1,693.3	20.83	43.29	1,680.0	70.9	82.4	108.3	3.50	3.47	-1.36
Start 2726.0 hold at 1693.3 MD									
1,700.0	20.83	43.29	1,686.3	72.7	84.1	110.7	0.00	0.00	0.00
1,800.0	20.83	43.29	1,779.8	98.6	108.5	146.2	0.00	0.00	0.00
1,900.0	20.83	43.29	1,873.2	124.4	132.8	181.8	0.00	0.00	0.00
2,000.0	20.83	43.29	1,966.7	150.3	157.2	217.3	0.00	0.00	0.00
2,100.0	20.83	43.29	2,060.2	176.2	181.6	252.9	0.00	0.00	0.00
2,200.0	20.83	43.29	2,153.6	202.1	206.0	288.4	0.00	0.00	0.00
2,300.0	20.83	43.29	2,247.1	228.0	230.4	324.0	0.00	0.00	0.00
2,400.0	20.83	43.29	2,340.6	253.9	254.8	359.6	0.00	0.00	0.00
2,500.0	20.83	43.29	2,434.0	279.7	279.1	395.1	0.00	0.00	0.00
2,600.0	20.83	43.29	2,527.5	305.6	303.5	430.7	0.00	0.00	0.00
2,700.0	20.83	43.29	2,620.9	331.5	327.9	466.2	0.00	0.00	0.00
2,800.0	20.83	43.29	2,714.4	357.4	352.3	501.8	0.00	0.00	0.00
2,900.0	20.83	43.29	2,807.9	383.3	376.7	537.4	0.00	0.00	0.00
3,000.0	20.83	43.29	2,901.3	409.2	401.1	572.9	0.00	0.00	0.00
3,100.0	20.83	43.29	2,994.8	435.1	425.4	608.5	0.00	0.00	0.00
3,200.0	20.83	43.29	3,088.3	460.9	449.8	644.0	0.00	0.00	0.00
3,300.0	20.83	43.29	3,181.7	486.8	474.2	679.6	0.00	0.00	0.00
3,400.0	20.83	43.29	3,275.2	512.7	498.6	715.1	0.00	0.00	0.00
3,500.0	20.83	43.29	3,368.7	538.6	523.0	750.7	0.00	0.00	0.00
3,600.0	20.83	43.29	3,462.1	564.5	547.3	786.3	0.00	0.00	0.00
3,700.0	20.83	43.29	3,555.6	590.4	571.7	821.8	0.00	0.00	0.00
3,757.2	20.83	43.29	3,609.0	605.1	585.7	842.1	0.00	0.00	0.00
Williams Fork									
3,800.0	20.83	43.29	3,649.0	616.2	596.1	857.4	0.00	0.00	0.00
3,900.0	20.83	43.29	3,742.5	642.1	620.5	892.9	0.00	0.00	0.00
4,000.0	20.83	43.29	3,836.0	668.0	644.9	928.5	0.00	0.00	0.00
4,100.0	20.83	43.29	3,929.4	693.9	669.3	964.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Company:	Ursa Operating Company, LLC	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Project:	Rockies Region	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site:	Valley Farms G	North Reference:	True
Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,200.0	20.83	43.29	4,022.9	719.8	693.6	999.6	0.00	0.00	0.00
4,300.0	20.83	43.29	4,116.4	745.7	718.0	1,035.2	0.00	0.00	0.00
4,400.0	20.83	43.29	4,209.8	771.5	742.4	1,070.7	0.00	0.00	0.00
4,419.3	20.83	43.29	4,227.9	776.5	747.1	1,077.6	0.00	0.00	0.00
Start Drop -3.00									
4,500.0	18.41	43.29	4,303.9	796.3	765.7	1,104.7	3.00	-3.00	0.00
4,600.0	15.41	43.29	4,399.5	817.4	785.6	1,133.8	3.00	-3.00	0.00
4,700.0	12.41	43.29	4,496.6	834.9	802.1	1,157.8	3.00	-3.00	0.00
4,800.0	9.41	43.29	4,594.8	848.7	815.1	1,176.7	3.00	-3.00	0.00
4,900.0	6.41	43.29	4,693.8	858.7	824.5	1,190.5	3.00	-3.00	0.00
5,000.0	3.41	43.29	4,793.4	864.9	830.4	1,199.0	3.00	-3.00	0.00
5,100.0	0.41	43.29	4,893.4	867.4	832.7	1,202.4	3.00	-3.00	0.00
5,113.6	0.00	0.00	4,907.0	867.4	832.7	1,202.4	3.00	-3.00	0.00
Start 2485.0 hold at 5113.6 MD - Back to Vertical - Top of Gas									
5,200.0	0.00	0.00	4,993.4	867.4	832.7	1,202.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,093.4	867.4	832.7	1,202.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,193.4	867.4	832.7	1,202.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,293.4	867.4	832.7	1,202.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,393.4	867.4	832.7	1,202.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,493.4	867.4	832.7	1,202.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,593.4	867.4	832.7	1,202.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,693.4	867.4	832.7	1,202.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,793.4	867.4	832.7	1,202.4	0.00	0.00	0.00
6,100.0	0.00	0.00	5,893.4	867.4	832.7	1,202.4	0.00	0.00	0.00
6,200.0	0.00	0.00	5,993.4	867.4	832.7	1,202.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,093.4	867.4	832.7	1,202.4	0.00	0.00	0.00
6,302.6	0.00	0.00	6,096.0	867.4	832.7	1,202.4	0.00	0.00	0.00
Cameo									
6,400.0	0.00	0.00	6,193.4	867.4	832.7	1,202.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,293.4	867.4	832.7	1,202.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,393.4	867.4	832.7	1,202.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,493.4	867.4	832.7	1,202.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,593.4	867.4	832.7	1,202.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,693.4	867.4	832.7	1,202.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,793.4	867.4	832.7	1,202.4	0.00	0.00	0.00
7,100.0	0.00	0.00	6,893.4	867.4	832.7	1,202.4	0.00	0.00	0.00
7,200.0	0.00	0.00	6,993.4	867.4	832.7	1,202.4	0.00	0.00	0.00
7,298.6	0.00	0.00	7,092.0	867.4	832.7	1,202.4	0.00	0.00	0.00
Rollins									
7,300.0	0.00	0.00	7,093.4	867.4	832.7	1,202.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,193.4	867.4	832.7	1,202.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,293.4	867.4	832.7	1,202.4	0.00	0.00	0.00
7,598.5	0.00	0.00	7,391.9	867.4	832.7	1,202.4	0.00	0.00	0.00
BHL: 39.5300979, -107.6274705									
7,598.6	0.00	0.00	7,392.0	867.4	832.7	1,202.4	0.00	0.00	0.00
TD at 7598.6 - TD									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Company:	Ursa Operating Company, LLC	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Project:	Rockies Region	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site:	Valley Farms G	North Reference:	True
Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
Valley Farms G 42A-14-06-92	0.00	0.00	4,907.0	867.4	832.7	1,624,992.86	2,399,972.53	39° 31' 48.352 N	107° 37' 38.894 W
- plan hits target center									
- Rectangle (sides W100.0 H40.0 D2,485.0)									

Formations

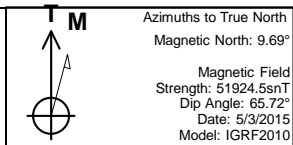
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,757.2	3,609.0	Williams Fork		0.00	
5,113.6	4,907.0	Top of Gas		0.00	
6,302.6	6,096.0	Cameo		0.00	
7,298.6	7,092.0	Rollins		0.00	
7,598.6	7,392.0	TD		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.0	1,000.0	0.0	0.0	Surface Casing
1,075.0	1,075.0	0.0	0.0	Start Build 3.50
1,175.0	1,174.9	0.5	3.0	Start DLS 3.50 TFO -43.06
1,693.3	1,680.0	70.9	82.4	Start 2726.0 hold at 1693.3 MD
4,419.3	4,227.9	776.5	747.1	Start Drop -3.00
5,113.6	4,907.0	867.4	832.7	Start 2485.0 hold at 5113.6 MD
5,113.6	4,907.0	867.4	832.7	Back to Vertical
7,598.5	7,391.9	867.4	832.7	BHL: 39.5300979, -107.6274705
7,598.6	7,392.0	867.4	832.7	TD at 7598.6



Well Name: Valley Farms G 42A-14-06-92
Surface Location: Valley Farms G
North American Datum 1983, US State Plane 1983, Colorado Central Zone
Ground Elevation: 5623.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1624145.23 2399119.71 39° 31' 39.780 N 107° 37' 49.522 W
PLAN KB Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)



Valley Farms G
Valley Farms G 42A-14-06-92
Design #1
18:57, May 10 2015

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Valley Farms G 42A-14-06-92 TGT	4907.0	867.4	832.7	1624992.86	2399972.529	39° 31' 48.352 N	107° 37' 38.894 W	Rectangle (Sides: L40.0 W100.0)

SECTION DETAILS

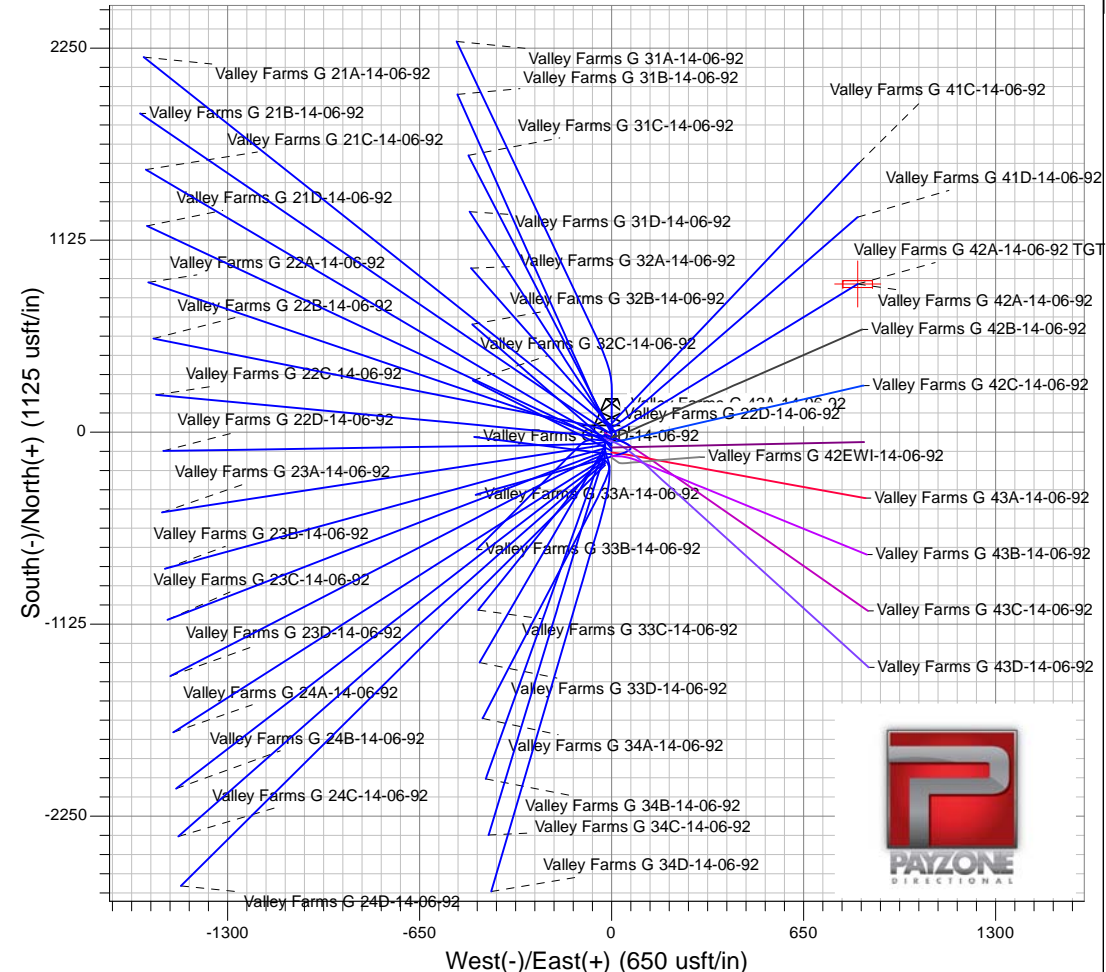
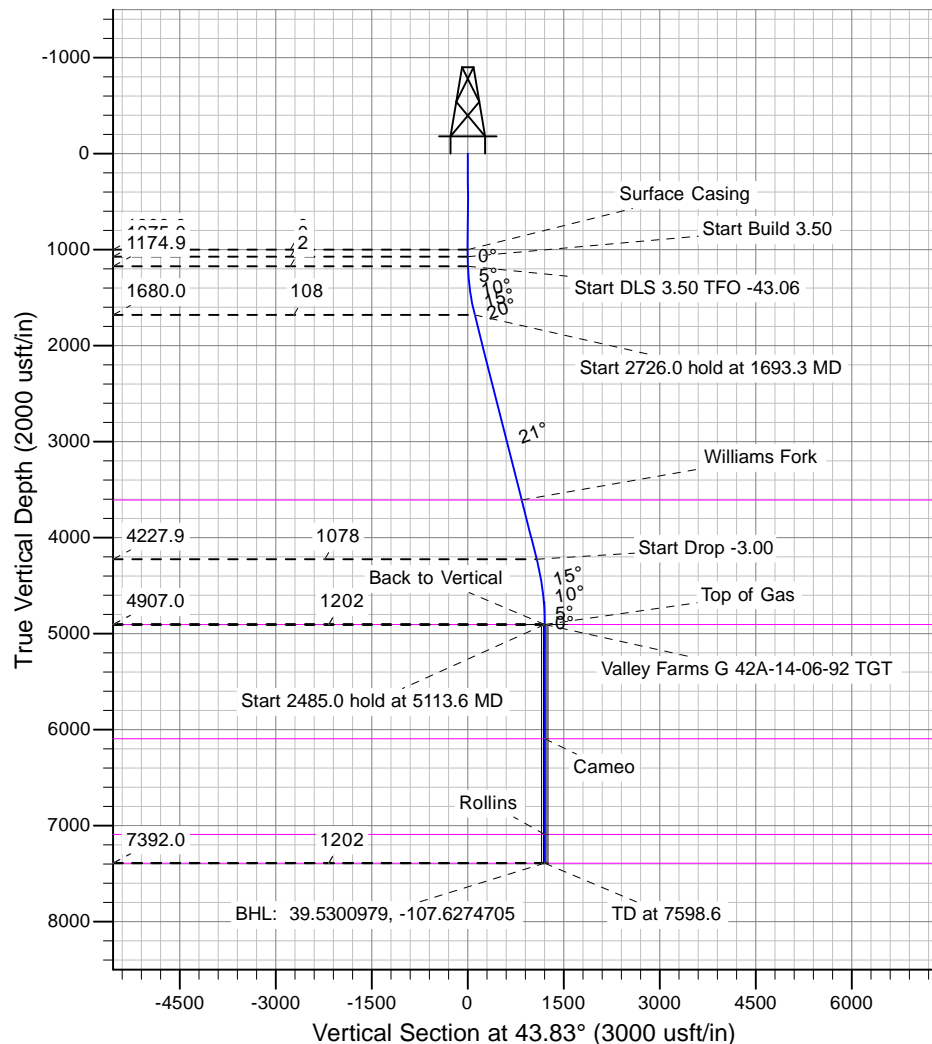
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1075.0	0.00	0.00	1075.0	0.0	0.0	0.00	0.00	0.0	
3	1175.0	3.50	80.00	1174.9	0.5	3.0	3.50	80.00	2.5	
4	1693.3	20.83	43.29	1680.0	70.9	82.4	3.50	-43.06	108.3	
5	4419.3	20.83	43.29	4227.9	776.5	747.1	0.00	0.00	1077.6	
6	5113.6	0.00	0.00	4907.0	867.4	832.7	3.00	180.00	1202.4	Valley Farms G 42A-14-06-92 TGT
7	7598.6	0.00	0.00	7392.0	867.4	832.7	0.00	0.00	1202.4	

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	Surface Casing
1075.0	1075.0	Start Build 3.50
1174.9	1175.0	Start DLS 3.50 TFO -43.06
1680.0	1693.3	Start 2726.0 hold at 1693.3 MD
4227.9	4419.3	Start Drop -3.00
4907.0	5113.6	Start 2485.0 hold at 5113.6 MD
4907.0	5113.6	Back to Vertical
7391.9	7598.5	BHL: 39.5300979, -107.6274705
7392.0	7598.6	TD at 7598.6

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
3609.0	3757.2	Williams Fork	0.00	
4907.0	5113.6	Top of Gas	0.00	
6096.0	6302.6	Cameo	0.00	
7092.0	7298.6	Rollins	0.00	





Ursa Operating Company, LLC

Rockies Region

Valley Farms G

Valley Farms G 42A-14-06-92

Wellbore #1

Design #1

Anticollision Report

10 May, 2015



Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	5/10/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	7,598.6	Design #1 (Wellbore #1)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Valley Farms G						
Valley Farms G 21A-14-06-92 - Wellbore #1 - Design #1	1,106.3	1,106.3	19.9	15.2	4.239	CC, ES, SF
Valley Farms G 21B-14-06-92 - Wellbore #1 - Design #1	1,140.3	1,140.5	9.7	4.9	2.003	CC, ES, SF
Valley Farms G 21C-14-06-92 - Wellbore #1 - Design #1	1,168.3	1,169.0	39.7	34.7	7.990	CC
Valley Farms G 21C-14-06-92 - Wellbore #1 - Design #1	1,175.0	1,175.7	39.7	34.7	7.947	ES
Valley Farms G 21C-14-06-92 - Wellbore #1 - Design #1	1,200.0	1,200.6	40.0	34.9	7.840	SF
Valley Farms G 21D-14-06-92 - Wellbore #1 - Design #1	1,209.5	1,211.9	69.3	64.2	13.448	CC, ES
Valley Farms G 21D-14-06-92 - Wellbore #1 - Design #1	1,300.0	1,302.9	71.7	66.2	12.915	SF
Valley Farms G 22A-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	100.0	95.4	21.878	CC
Valley Farms G 22A-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	100.0	95.3	21.374	ES
Valley Farms G 22A-14-06-92 - Wellbore #1 - Design #1	1,300.0	1,301.9	104.6	99.1	18.827	SF
Valley Farms G 22B-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	23.0	18.5	5.043	CC, ES
Valley Farms G 22B-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,099.8	23.3	18.7	4.991	SF
Valley Farms G 22C-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	33.6	29.1	7.359	CC, ES
Valley Farms G 22C-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,099.7	33.9	29.2	7.252	SF
Valley Farms G 22D-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	59.4	54.8	13.001	CC, ES
Valley Farms G 22D-14-06-92 - Wellbore #1 - Design #1	1,175.0	1,172.6	63.0	58.1	12.719	SF
Valley Farms G 23A-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	78.3	73.7	17.131	CC, ES
Valley Farms G 23A-14-06-92 - Wellbore #1 - Design #1	1,175.0	1,172.2	81.4	76.4	16.378	SF
Valley Farms G 23B-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	97.6	93.0	21.359	CC
Valley Farms G 23B-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	97.7	93.0	20.876	ES
Valley Farms G 23B-14-06-92 - Wellbore #1 - Design #1	1,200.0	1,196.5	101.4	96.3	19.935	SF
Valley Farms G 23C-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	117.1	112.6	25.637	CC
Valley Farms G 23C-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	117.2	112.5	25.052	ES
Valley Farms G 23C-14-06-92 - Wellbore #1 - Design #1	1,200.0	1,195.5	120.9	115.8	23.777	SF
Valley Farms G 23D-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	136.8	132.3	29.943	CC, ES
Valley Farms G 23D-14-06-92 - Wellbore #1 - Design #1	1,200.0	1,195.1	140.4	135.4	27.694	SF
Valley Farms G 24A-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	156.6	152.0	34.267	CC, ES
Valley Farms G 24A-14-06-92 - Wellbore #1 - Design #1	1,200.0	1,190.9	161.7	156.6	32.006	SF
Valley Farms G 24B-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	176.4	171.8	38.602	CC, ES
Valley Farms G 24B-14-06-92 - Wellbore #1 - Design #1	1,300.0	1,281.1	193.8	188.3	35.506	SF
Valley Farms G 24C-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	186.3	181.7	40.773	CC, ES
Valley Farms G 24C-14-06-92 - Wellbore #1 - Design #1	1,300.0	1,279.0	204.5	199.0	37.518	SF
Valley Farms G 24D-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	196.2	191.7	42.947	CC, ES
Valley Farms G 24D-14-06-92 - Wellbore #1 - Design #1	1,300.0	1,274.8	216.8	211.4	39.853	SF
Valley Farms G 31A-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	60.0	55.4	13.127	CC, ES

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Valley Farms G						
Valley Farms G 31A-14-06-92 - Wellbore #1 - Design #1	1,200.0	1,195.3	63.8	58.7	12.499	SF
Valley Farms G 31B-14-06-92 - Wellbore #1 - Design #1	1,112.4	1,112.3	39.9	35.2	8.441	CC, ES
Valley Farms G 31B-14-06-92 - Wellbore #1 - Design #1	1,200.0	1,198.5	41.0	35.9	8.031	SF
Valley Farms G 31C-14-06-92 - Wellbore #1 - Design #1	1,149.2	1,149.2	9.8	4.9	2.012	CC, ES, SF
Valley Farms G 31D-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	20.0	15.4	4.376	CC
Valley Farms G 31D-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	20.0	15.4	4.281	ES
Valley Farms G 31D-14-06-92 - Wellbore #1 - Design #1	1,175.0	1,174.9	20.8	15.8	4.150	SF
Valley Farms G 32A-14-06-92 - Wellbore #1 - Design #1	1,257.7	1,260.4	48.2	42.9	8.988	CC, ES
Valley Farms G 32A-14-06-92 - Wellbore #1 - Design #1	1,400.0	1,403.9	51.7	45.7	8.640	SF
Valley Farms G 32B-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	80.0	75.4	17.503	CC
Valley Farms G 32B-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	80.0	75.3	17.101	ES
Valley Farms G 32B-14-06-92 - Wellbore #1 - Design #1	1,300.0	1,299.4	86.7	81.2	15.609	SF
Valley Farms G 32C-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	110.0	105.4	24.066	CC
Valley Farms G 32C-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	110.0	105.3	23.510	ES
Valley Farms G 32C-14-06-92 - Wellbore #1 - Design #1	1,300.0	1,299.4	116.5	110.9	20.954	SF
Valley Farms G 32D-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	130.0	125.4	28.442	CC
Valley Farms G 32D-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	130.0	125.3	27.784	ES
Valley Farms G 32D-14-06-92 - Wellbore #1 - Design #1	1,300.0	1,299.4	136.3	130.8	24.530	SF
Valley Farms G 33A-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	27.0	22.5	5.916	CC, ES
Valley Farms G 33A-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.1	27.2	22.5	5.814	SF
Valley Farms G 33B-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	50.3	45.7	11.007	CC, ES
Valley Farms G 33B-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,099.3	50.6	45.9	10.829	SF
Valley Farms G 33C-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	68.8	64.2	15.049	CC, ES
Valley Farms G 33C-14-06-92 - Wellbore #1 - Design #1	1,175.0	1,173.1	71.6	66.6	14.455	SF
Valley Farms G 33D-14-06-92 - Wellbore #1 - Design #1	0.0	0.0	87.9			
Valley Farms G 33D-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,011.7	323.0	316.1	46.448	SF
Valley Farms G 34A-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	107.4	102.8	23.494	CC
Valley Farms G 34A-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	107.4	102.7	22.960	ES
Valley Farms G 34A-14-06-92 - Wellbore #1 - Design #1	1,200.0	1,197.3	110.5	105.4	21.762	SF
Valley Farms G 34B-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	127.0	122.4	27.788	CC
Valley Farms G 34B-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	127.0	122.4	27.152	ES
Valley Farms G 34B-14-06-92 - Wellbore #1 - Design #1	1,200.0	1,195.7	130.4	125.3	25.685	SF
Valley Farms G 34C-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	146.7	142.1	32.103	CC
Valley Farms G 34C-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	146.8	142.1	31.366	ES
Valley Farms G 34C-14-06-92 - Wellbore #1 - Design #1	1,200.0	1,195.8	149.1	144.0	29.297	SF
Valley Farms G 34D-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	166.5	161.9	36.434	CC, ES
Valley Farms G 34D-14-06-92 - Wellbore #1 - Design #1	1,300.0	1,289.3	180.7	175.3	33.145	SF
Valley Farms G 41C-14-06-92 - Wellbore #1 - Design #1	1,106.3	1,106.1	49.9	45.2	10.614	CC, ES
Valley Farms G 41C-14-06-92 - Wellbore #1 - Design #1	1,800.0	1,779.5	86.5	77.4	9.556	SF
Valley Farms G 41D-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	30.0	25.4	6.564	CC
Valley Farms G 41D-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,099.8	30.0	25.4	6.423	ES
Valley Farms G 41D-14-06-92 - Wellbore #1 - Design #1	1,700.0	1,689.7	44.8	36.8	5.561	SF
Valley Farms G 42B-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	30.0	25.4	6.564	CC
Valley Farms G 42B-14-06-92 - Wellbore #1 - Design #1	1,200.0	1,200.6	30.2	25.2	5.940	ES
Valley Farms G 42B-14-06-92 - Wellbore #1 - Design #1	1,600.0	1,605.5	37.7	30.4	5.141	SF
Valley Farms G 42C-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	60.0	55.4	13.127	CC
Valley Farms G 42C-14-06-92 - Wellbore #1 - Design #1	1,175.0	1,175.3	60.2	55.3	12.092	ES
Valley Farms G 42C-14-06-92 - Wellbore #1 - Design #1	1,400.0	1,403.8	67.0	60.9	11.070	SF
Valley Farms G 42D-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	90.0	85.4	19.691	CC
Valley Farms G 42D-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	90.0	85.3	19.237	ES
Valley Farms G 42D-14-06-92 - Wellbore #1 - Design #1	1,300.0	1,300.5	95.3	89.8	17.215	SF

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Valley Farms G						
Valley Farms G 42EWI-14-06-92 - Wellbore #1 - Design	1,075.0	1,075.0	150.0	145.4	32.818	CC
Valley Farms G 42EWI-14-06-92 - Wellbore #1 - Design	1,100.0	1,100.0	150.0	145.3	32.057	ES
Valley Farms G 42EWI-14-06-92 - Wellbore #1 - Design	1,300.0	1,295.1	158.3	152.8	28.793	SF
Valley Farms G 43A-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	120.0	115.4	26.254	CC
Valley Farms G 43A-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	120.0	115.3	25.647	ES
Valley Farms G 43A-14-06-92 - Wellbore #1 - Design #1	1,300.0	1,297.7	126.6	121.1	22.916	SF
Valley Farms G 43B-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	140.0	135.4	30.630	CC
Valley Farms G 43B-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.0	140.0	135.3	29.920	ES
Valley Farms G 43B-14-06-92 - Wellbore #1 - Design #1	1,400.0	1,398.2	156.8	150.8	26.152	SF
Valley Farms G 43C-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	23.0	18.5	5.043	CC, ES
Valley Farms G 43C-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,100.1	23.2	18.5	4.964	SF
Valley Farms G 43D-14-06-92 - Wellbore #1 - Design #1	1,075.0	1,075.0	41.6	37.0	9.103	CC, ES
Valley Farms G 43D-14-06-92 - Wellbore #1 - Design #1	1,100.0	1,099.6	41.8	37.2	8.957	SF

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 21A-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning		
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	0.23	20.0	0.1	20.0						
100.0	100.0	100.0	100.0	0.1	0.1	0.23	20.0	0.1	20.0	19.8	0.19	107.156			
200.0	200.0	200.0	200.0	0.3	0.3	0.23	20.0	0.1	20.0	19.4	0.64	31.427			
300.0	300.0	300.0	300.0	0.5	0.5	0.23	20.0	0.1	20.0	18.9	1.09	18.414			
400.0	400.0	400.0	400.0	0.8	0.8	0.23	20.0	0.1	20.0	18.5	1.54	13.022			
500.0	500.0	500.0	500.0	1.0	1.0	0.23	20.0	0.1	20.0	18.0	1.98	10.072			
600.0	600.0	600.0	600.0	1.2	1.2	0.23	20.0	0.1	20.0	17.6	2.43	8.212			
700.0	700.0	700.0	700.0	1.4	1.4	0.23	20.0	0.1	20.0	17.1	2.88	6.932			
800.0	800.0	800.0	800.0	1.7	1.7	0.23	20.0	0.1	20.0	16.7	3.33	5.997			
900.0	900.0	900.0	900.0	1.9	1.9	0.23	20.0	0.1	20.0	16.2	3.78	5.285			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	0.23	20.0	0.1	20.0	15.8	4.23	4.723			
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	0.23	20.0	0.1	20.0	15.4	4.57	4.375			
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	-80.31	20.0	0.1	20.0	15.3	4.68	4.265			
1,106.3	1,106.3	1,106.3	1,106.3	2.4	2.4	-80.64	20.0	0.1	19.9	15.2	4.71	4.239	CC, ES, SF		
1,175.0	1,174.9	1,174.1	1,174.1	2.5	2.5	-90.50	21.3	-0.9	21.2	16.2	5.00	4.241			
1,200.0	1,199.9	1,198.7	1,198.6	2.5	2.6	-87.90	22.4	-1.7	22.4	17.3	5.11	4.383			
1,300.0	1,299.4	1,296.1	1,295.6	2.8	2.8	-95.29	29.5	-6.8	31.4	25.9	5.56	5.656			
1,400.0	1,398.1	1,391.6	1,390.1	3.0	3.0	-105.62	40.9	-15.2	49.0	42.9	6.03	8.122			
1,500.0	1,495.8	1,484.5	1,481.0	3.3	3.3	-111.81	56.3	-26.4	74.6	68.1	6.53	11.415			
1,600.0	1,591.9	1,574.4	1,567.8	3.7	3.6	-115.12	75.2	-40.1	107.4	100.3	7.10	15.119			
1,693.3	1,680.0	1,655.2	1,644.6	4.1	4.0	-116.72	95.4	-54.8	143.8	136.1	7.71	18.652			
1,700.0	1,686.3	1,660.8	1,649.9	4.2	4.0	-116.96	96.9	-55.9	146.6	138.9	7.76	18.903			
1,800.0	1,779.8	1,744.2	1,727.7	4.7	4.4	-119.21	121.2	-73.5	190.6	182.1	8.50	22.418			
1,900.0	1,873.2	1,824.8	1,801.4	5.3	4.9	-119.83	147.6	-92.8	237.9	228.6	9.32	25.525			
2,000.0	1,966.7	1,900.0	1,868.5	5.9	5.5	-119.63	174.9	-112.7	288.2	278.0	10.19	28.297			
2,100.0	2,060.2	1,977.0	1,935.6	6.5	6.1	-118.97	205.4	-134.8	341.3	330.2	11.14	30.649			
2,200.0	2,153.6	2,048.2	1,996.1	7.2	6.8	-118.12	235.9	-157.0	397.2	385.1	12.10	32.821			
2,300.0	2,247.1	2,116.1	2,052.1	7.8	7.5	-117.18	266.9	-179.6	455.6	442.5	13.08	34.829			

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 21A-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,400.0	2,340.6	2,180.8	2,104.0	8.5	8.2	-116.20	298.1	-202.3	516.6	502.5	14.08	36.681		
2,500.0	2,434.0	2,251.9	2,159.6	9.2	9.1	-115.13	334.0	-228.4	579.5	564.4	15.14	38.275		
2,600.0	2,527.5	2,329.0	2,219.8	9.9	10.0	-114.18	373.0	-256.8	642.8	626.5	16.25	39.563		
2,700.0	2,620.9	2,406.1	2,279.9	10.5	11.0	-113.39	411.9	-285.1	706.1	688.7	17.36	40.682		
2,800.0	2,714.4	2,483.1	2,340.0	11.2	11.9	-112.74	450.9	-313.4	769.5	751.0	18.48	41.641		
2,900.0	2,807.9	2,560.2	2,400.2	11.9	12.9	-112.18	489.8	-341.8	832.9	813.3	19.61	42.478		
3,000.0	2,901.3	2,637.2	2,460.3	12.6	13.9	-111.70	528.8	-370.1	896.4	875.7	20.74	43.214		
3,100.0	2,994.8	2,714.3	2,520.4	13.3	14.9	-111.28	567.8	-398.5	959.9	938.1	21.88	43.866		
3,200.0	3,088.3	2,791.3	2,580.6	14.0	15.9	-110.92	606.7	-426.8	1,023.5	1,000.5	23.03	44.443		
3,300.0	3,181.7	2,868.4	2,640.7	14.7	16.9	-110.60	645.7	-455.2	1,087.1	1,062.9	24.18	44.957		
3,400.0	3,275.2	2,945.5	2,700.8	15.4	17.9	-110.31	684.6	-483.5	1,150.6	1,125.3	25.33	45.420		
3,500.0	3,368.7	3,022.5	2,761.0	16.1	18.9	-110.05	723.6	-511.9	1,214.2	1,187.8	26.49	45.838		
3,600.0	3,462.1	3,099.6	2,821.1	16.8	19.9	-109.82	762.6	-540.2	1,277.9	1,250.2	27.65	46.217		
3,700.0	3,555.6	3,176.6	2,881.3	17.5	21.0	-109.61	801.5	-568.6	1,341.5	1,312.7	28.81	46.560		
3,800.0	3,649.0	3,253.7	2,941.4	18.2	22.0	-109.42	840.5	-596.9	1,405.1	1,375.2	29.98	46.874		
3,900.0	3,742.5	3,330.7	3,001.5	18.9	23.0	-109.25	879.4	-625.3	1,468.8	1,437.6	31.14	47.162		
4,000.0	3,836.0	3,407.8	3,061.7	19.6	24.0	-109.09	918.4	-653.6	1,532.4	1,500.1	32.31	47.428		
4,100.0	3,929.4	3,484.9	3,121.8	20.3	25.0	-108.94	957.4	-682.0	1,596.1	1,562.6	33.48	47.672		
4,200.0	4,022.9	3,561.9	3,181.9	21.0	26.1	-108.81	996.3	-710.3	1,659.8	1,625.1	34.65	47.897		
4,300.0	4,116.4	3,639.0	3,242.1	21.7	27.1	-108.68	1,035.3	-738.7	1,723.4	1,687.6	35.82	48.107		
4,400.0	4,209.8	3,716.0	3,302.2	22.4	28.1	-108.56	1,074.2	-767.0	1,787.1	1,750.1	37.00	48.302		
4,419.3	4,227.9	3,730.9	3,313.8	22.6	28.3	-108.54	1,081.8	-772.5	1,799.4	1,762.2	37.23	48.338		
4,500.0	4,303.9	3,793.4	3,362.6	23.1	29.1	-110.25	1,113.3	-795.5	1,850.4	1,811.8	38.59	47.955		
4,600.0	4,399.5	3,871.4	3,423.5	23.5	30.2	-112.11	1,152.8	-824.2	1,912.2	1,872.1	40.15	47.627		
4,700.0	4,496.6	3,949.9	3,484.7	23.9	31.2	-113.71	1,192.5	-853.0	1,972.6	1,931.0	41.64	47.371		
4,800.0	4,594.8	4,028.7	3,546.2	24.3	32.3	-115.08	1,232.3	-882.0	2,031.5	1,988.4	43.04	47.195		
4,900.0	4,693.8	4,107.6	3,607.8	24.5	33.3	-116.23	1,272.2	-911.1	2,088.7	2,044.4	44.35	47.100		
5,000.0	4,793.4	4,186.3	3,669.3	24.7	34.4	-117.21	1,312.0	-940.0	2,144.3	2,098.8	45.54	47.091		
5,100.0	4,893.4	4,264.7	3,730.4	24.9	35.4	-118.02	1,351.7	-968.9	2,198.3	2,151.7	46.61	47.166		
5,113.6	4,907.0	4,275.4	3,738.7	24.9	35.6	-74.83	1,357.0	-972.8	2,205.5	2,158.8	46.74	47.184		
5,200.0	4,993.4	4,342.8	3,791.3	24.9	36.5	-74.03	1,391.1	-997.6	2,251.5	2,204.3	47.21	47.690		
5,300.0	5,093.4	4,420.8	3,852.2	25.0	37.5	-73.15	1,430.6	-1,026.3	2,305.1	2,257.3	47.74	48.285		
5,400.0	5,193.4	4,498.9	3,913.1	25.1	38.5	-72.29	1,470.0	-1,055.0	2,359.1	2,310.9	48.25	48.892		
5,500.0	5,293.4	4,576.9	3,974.0	25.2	39.6	-71.48	1,509.5	-1,083.7	2,413.6	2,364.9	48.75	49.509		
5,600.0	5,393.4	4,654.9	4,034.9	25.3	40.6	-70.69	1,548.9	-1,112.4	2,468.5	2,419.2	49.24	50.135		
5,700.0	5,493.4	4,733.0	4,095.8	25.4	41.7	-69.93	1,588.4	-1,141.1	2,523.7	2,474.0	49.71	50.769		
5,800.0	5,593.4	4,811.0	4,156.8	25.5	42.7	-69.21	1,627.9	-1,169.8	2,579.2	2,529.0	50.17	51.408		
5,900.0	5,693.4	4,889.1	4,217.7	25.6	43.8	-68.51	1,667.3	-1,198.5	2,635.1	2,584.4	50.62	52.052		
6,000.0	5,793.4	4,967.1	4,278.6	25.7	44.8	-67.83	1,706.8	-1,227.2	2,691.2	2,640.1	51.07	52.699		
6,100.0	5,893.4	5,045.1	4,339.5	25.8	45.8	-67.18	1,746.2	-1,256.0	2,747.6	2,696.1	51.50	53.349		
6,200.0	5,993.4	5,123.0	4,399.4	26.0	46.8	-66.51	1,785.6	-1,284.8	2,803.0	2,751.5	51.92	53.999		
6,300.0	6,093.4	5,201.0	4,460.3	26.1	47.8	-65.83	1,825.0	-1,313.6	2,858.4	2,806.9	52.34	54.649		
6,400.0	6,193.4	5,279.0	4,521.2	26.2	48.8	-65.18	1,864.4	-1,342.4	2,913.8	2,862.3	52.75	55.299		
6,500.0	6,293.4	5,357.0	4,582.1	26.3	49.8	-64.51	1,903.8	-1,371.2	2,969.2	2,917.7	53.16	55.949		
6,600.0	6,393.4	5,435.0	4,643.0	26.4	50.8	-63.83	1,943.2	-1,400.0	3,024.6	2,973.1	53.57	56.599		
6,700.0	6,493.4	5,513.0	4,703.9	26.5	51.8	-63.18	1,982.6	-1,428.8	3,079.0	2,978.0	53.98	57.249		
6,800.0	6,593.4	5,591.0	4,764.8	26.6	52.8	-62.51	2,022.0	-1,457.6	3,134.4	2,982.9	54.39	57.899		
6,900.0	6,693.4	5,669.0	4,825.7	26.7	53.8	-61.83	2,061.4	-1,486.4	3,189.8	2,987.8	54.80	58.549		
7,000.0	6,793.4	5,747.0	4,886.6	26.8	54.8	-61.18	2,100.8	-1,515.2	3,245.2	2,992.7	55.21	59.199		
7,100.0	6,893.4	5,825.0	4,947.5	26.9	55.8	-60.51	2,140.2	-1,544.0	3,300.6	2,997.6	55.62	59.849		
7,200.0	6,993.4	5,903.0	5,008.4	27.0	56.8	-59.83	2,179.6	-1,572.8	3,356.0	3,002.5	56.03	60.499		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 21A-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
7,300.0	7,093.4	7,951.0	7,093.4	27.2	57.2	-61.18	2,197.5	-1,584.3	2,758.9	2,701.4	57.44	48.034			
7,400.0	7,193.4	8,051.0	7,193.4	27.4	57.2	-61.18	2,197.5	-1,584.3	2,758.9	2,701.2	57.66	47.846			
7,500.0	7,293.4	8,151.0	7,293.4	27.5	57.3	-61.18	2,197.5	-1,584.3	2,758.9	2,701.0	57.89	47.659			
7,598.6	7,392.0	8,249.6	7,392.0	27.6	57.3	-61.18	2,197.5	-1,584.3	2,758.9	2,700.8	58.11	47.473			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 21B-14-06-92 - Wellbore #1 - Design #1		Offset Site Error: 0.0 usft	
Survey Program: 0-MWD													Offset Well Error: 0.0 usft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-10.0	0.0	10.0							
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-10.0	0.0	10.0	9.8	0.19	53.588				
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-10.0	0.0	10.0	9.4	0.64	15.717				
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-10.0	0.0	10.0	8.9	1.09	9.209				
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-10.0	0.0	10.0	8.5	1.54	6.512				
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-10.0	0.0	10.0	8.0	1.98	5.037				
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-10.0	0.0	10.0	7.6	2.43	4.107				
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-10.0	0.0	10.0	7.1	2.88	3.467				
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-10.0	0.0	10.0	6.7	3.33	2.999				
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-10.0	0.0	10.0	6.2	3.78	2.643				
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-10.0	0.0	10.0	5.8	4.23	2.362				
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-10.0	0.0	10.0	5.4	4.57	2.188				
1,100.0	1,100.0	1,100.1	1,100.1	2.3	2.3	102.20	-9.9	-0.2	9.9	5.2	4.68	2.121				
1,140.3	1,140.3	1,140.5	1,140.4	2.4	2.4	114.05	-9.2	-1.1	9.7	4.9	4.85	2.003 CC, ES, SF				
1,175.0	1,174.9	1,175.1	1,175.0	2.5	2.5	132.22	-8.1	-2.4	10.2	5.2	4.99	2.048				
1,200.0	1,199.9	1,199.9	1,199.8	2.5	2.6	154.57	-7.0	-3.8	11.6	6.5	5.10	2.271				
1,300.0	1,299.4	1,298.2	1,297.5	2.8	2.8	-158.27	0.1	-11.3	25.3	19.8	5.54	4.579				
1,400.0	1,398.1	1,394.2	1,392.2	3.0	3.0	-142.99	11.5	-22.2	48.4	42.5	5.99	8.086				
1,500.0	1,495.8	1,487.3	1,483.0	3.3	3.3	-136.31	26.6	-36.1	78.9	72.4	6.48	12.167				
1,600.0	1,591.9	1,576.9	1,569.1	3.7	3.7	-132.55	44.9	-52.5	116.0	108.9	7.03	16.494				
1,693.3	1,680.0	1,656.9	1,644.8	4.1	4.0	-130.12	64.3	-69.6	156.2	148.6	7.62	20.509				
1,700.0	1,686.3	1,662.5	1,650.1	4.2	4.1	-130.14	65.8	-70.9	159.3	151.6	7.66	20.789				
1,800.0	1,779.8	1,744.8	1,726.4	4.7	4.5	-129.78	89.0	-91.1	206.8	198.4	8.40	24.612				
1,900.0	1,873.2	1,824.1	1,798.5	5.3	5.1	-128.77	114.1	-112.8	257.0	247.8	9.21	27.909				
2,000.0	1,966.7	1,900.0	1,865.8	5.9	5.6	-127.48	140.7	-135.6	309.8	299.8	10.07	30.758				
2,100.0	2,060.2	1,973.2	1,929.1	6.5	6.3	-126.10	168.5	-159.4	365.4	354.4	11.00	33.209				
2,200.0	2,153.6	2,042.7	1,987.6	7.2	7.0	-124.71	197.1	-183.6	423.5	411.5	11.95	35.440				
2,300.0	2,247.1	2,114.6	2,046.7	7.8	7.7	-123.30	228.4	-210.1	483.9	470.9	12.95	37.362				
2,400.0	2,340.6	2,193.3	2,111.1	8.5	8.6	-122.03	263.0	-239.3	544.8	530.8	14.00	38.905				
2,500.0	2,434.0	2,272.1	2,175.5	9.2	9.5	-121.01	297.6	-268.6	605.9	590.9	15.08	40.192				
2,600.0	2,527.5	2,350.8	2,239.9	9.9	10.4	-120.17	332.2	-297.9	667.1	651.0	16.16	41.287				
2,700.0	2,620.9	2,429.6	2,304.3	10.5	11.3	-119.48	366.8	-327.1	728.4	711.2	17.25	42.226				
2,800.0	2,714.4	2,508.3	2,368.7	11.2	12.2	-118.89	401.4	-356.4	789.7	771.4	18.35	43.037				
2,900.0	2,807.9	2,587.1	2,433.1	11.9	13.2	-118.39	436.0	-385.7	851.1	831.7	19.46	43.739				
3,000.0	2,901.3	2,665.8	2,497.5	12.6	14.1	-117.96	470.6	-414.9	912.5	892.0	20.57	44.352				
3,100.0	2,994.8	2,744.5	2,561.9	13.3	15.0	-117.57	505.2	-444.2	974.0	952.3	21.69	44.895				
3,200.0	3,088.3	2,823.3	2,626.3	14.0	16.0	-117.24	539.8	-473.5	1,035.4	1,012.6	22.82	45.377				
3,300.0	3,181.7	2,902.0	2,690.7	14.7	16.9	-116.94	574.4	-502.7	1,096.9	1,073.0	23.95	45.807				
3,400.0	3,275.2	2,980.8	2,755.1	15.4	17.9	-116.67	609.0	-532.0	1,158.4	1,133.3	25.08	46.190				
3,500.0	3,368.7	3,059.5	2,819.5	16.1	18.8	-116.43	643.6	-561.3	1,219.9	1,193.7	26.21	46.537				
3,600.0	3,462.1	3,138.3	2,883.9	16.8	19.8	-116.22	678.2	-590.5	1,281.4	1,254.1	27.35	46.851				
3,700.0	3,555.6	3,217.0	2,948.3	17.5	20.8	-116.02	712.8	-619.8	1,343.0	1,314.5	28.49	47.136				
3,800.0	3,649.0	3,295.8	3,012.7	18.2	21.7	-115.84	747.4	-649.1	1,404.5	1,374.9	29.63	47.397				
3,900.0	3,742.5	3,374.5	3,077.1	18.9	22.7	-115.68	782.0	-678.4	1,466.1	1,435.3	30.78	47.634				
4,000.0	3,836.0	3,453.2	3,141.5	19.6	23.6	-115.52	816.6	-707.6	1,527.6	1,495.7	31.92	47.853				
4,100.0	3,929.4	3,532.0	3,205.9	20.3	24.6	-115.38	851.2	-736.9	1,589.2	1,556.1	33.07	48.055				
4,200.0	4,022.9	3,610.7	3,270.3	21.0	25.6	-115.26	885.8	-766.2	1,650.8	1,616.6	34.22	48.241				
4,300.0	4,116.4	3,689.5	3,334.7	21.7	26.5	-115.14	920.4	-795.4	1,712.3	1,677.0	35.37	48.414				
4,400.0	4,209.8	3,768.2	3,399.1	22.4	27.5	-115.02	955.0	-824.7	1,773.9	1,737.4	36.52	48.574				
4,419.3	4,227.9	3,783.4	3,411.5	22.6	27.7	-115.00	961.7	-830.3	1,785.8	1,749.1	36.74	48.604				
4,500.0	4,303.9	3,847.3	3,463.8	23.1	28.4	-116.53	989.7	-854.1	1,834.9	1,796.9	38.04	48.243				

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Valley Farms G - Valley Farms G 21B-14-06-92 - Wellbore #1 - Design #1												Offset Site Error:		0.0 usft	
Survey Program: 0-MWD												Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,600.0	4,399.5	3,927.5	3,529.3	23.5	29.4	-118.16	1,024.9	-883.9	1,894.1	1,854.6	39.52	47.930			
4,700.0	4,496.6	4,008.4	3,595.5	23.9	30.4	-119.53	1,060.5	-914.0	1,951.4	1,910.4	40.92	47.682			
4,800.0	4,594.8	4,089.9	3,662.1	24.3	31.4	-120.66	1,096.3	-944.3	2,006.6	1,964.4	42.24	47.504			
4,900.0	4,693.8	4,171.8	3,729.1	24.5	32.4	-121.58	1,132.3	-974.7	2,059.8	2,016.3	43.45	47.401			
5,000.0	4,793.4	4,253.8	3,796.2	24.7	33.4	-122.31	1,168.4	-1,005.2	2,110.9	2,066.3	44.56	47.377			
5,100.0	4,893.4	4,335.8	3,863.2	24.9	34.4	-122.88	1,204.4	-1,035.6	2,160.0	2,114.4	45.54	47.433			
5,113.6	4,907.0	4,346.9	3,872.3	24.9	34.6	-79.65	1,209.3	-1,039.8	2,166.5	2,120.8	45.66	47.447			
5,200.0	4,993.4	4,417.6	3,930.1	24.9	35.4	-78.89	1,240.3	-1,066.0	2,207.9	2,161.8	46.16	47.834			
5,300.0	5,093.4	4,499.3	3,997.0	25.0	36.4	-78.03	1,276.2	-1,096.4	2,256.3	2,209.6	46.72	48.291			
5,400.0	5,193.4	4,581.1	4,063.8	25.1	37.4	-77.21	1,312.2	-1,126.8	2,305.1	2,257.8	47.27	48.762			
5,500.0	5,293.4	4,662.9	4,130.7	25.2	38.5	-76.42	1,348.1	-1,157.2	2,354.3	2,306.5	47.81	49.245			
5,600.0	5,393.4	4,744.7	4,197.6	25.3	39.5	-75.66	1,384.0	-1,187.6	2,403.9	2,355.5	48.33	49.739			
5,700.0	5,493.4	4,826.5	4,264.5	25.4	40.5	-74.92	1,420.0	-1,218.0	2,453.8	2,404.9	48.84	50.242			
5,800.0	5,593.4	4,908.2	4,331.3	25.5	41.5	-74.21	1,455.9	-1,248.4	2,504.0	2,454.7	49.34	50.752			
5,900.0	5,693.4	4,990.0	4,398.2	25.6	42.5	-73.53	1,491.8	-1,278.8	2,554.6	2,504.7	49.83	51.268			
6,000.0	5,793.4	5,071.8	4,465.1	25.7	43.5	-72.86	1,527.8	-1,309.2	2,605.4	2,555.1	50.31	51.790			
6,100.0	5,893.4	6,608.1	5,893.4	25.8	52.0	-67.63	1,867.1	-1,596.3	2,626.7	2,573.0	53.70	48.915			
6,200.0	5,993.4	6,708.1	5,993.4	26.0	52.1	-67.63	1,867.1	-1,596.3	2,626.7	2,572.8	53.89	48.737			
6,300.0	6,093.4	6,808.1	6,093.4	26.1	52.1	-67.63	1,867.1	-1,596.3	2,626.7	2,572.6	54.09	48.557			
6,400.0	6,193.4	6,908.1	6,193.4	26.2	52.2	-67.63	1,867.1	-1,596.3	2,626.7	2,572.4	54.30	48.376			
6,500.0	6,293.4	7,008.1	6,293.4	26.3	52.2	-67.63	1,867.1	-1,596.3	2,626.7	2,572.2	54.50	48.194			
6,600.0	6,393.4	7,108.1	6,393.4	26.4	52.3	-67.63	1,867.1	-1,596.3	2,626.7	2,571.9	54.71	48.010			
6,700.0	6,493.4	7,208.1	6,493.4	26.5	52.4	-67.63	1,867.1	-1,596.3	2,626.7	2,571.7	54.92	47.826			
6,800.0	6,593.4	7,308.1	6,593.4	26.6	52.4	-67.63	1,867.1	-1,596.3	2,626.7	2,571.5	55.14	47.640			
6,900.0	6,693.4	7,408.1	6,693.4	26.7	52.5	-67.63	1,867.1	-1,596.3	2,626.7	2,571.3	55.35	47.453			
7,000.0	6,793.4	7,508.1	6,793.4	26.9	52.5	-67.63	1,867.1	-1,596.3	2,626.7	2,571.1	55.57	47.266			
7,100.0	6,893.4	7,608.1	6,893.4	27.0	52.6	-67.63	1,867.1	-1,596.3	2,626.7	2,570.9	55.79	47.077			
7,200.0	6,993.4	7,708.1	6,993.4	27.1	52.7	-67.63	1,867.1	-1,596.3	2,626.7	2,570.6	56.02	46.888			
7,300.0	7,093.4	7,808.1	7,093.4	27.2	52.7	-67.63	1,867.1	-1,596.3	2,626.7	2,570.4	56.25	46.698			
7,400.0	7,193.4	7,908.1	7,193.4	27.4	52.8	-67.63	1,867.1	-1,596.3	2,626.7	2,570.2	56.48	46.508			
7,500.0	7,293.4	8,008.1	7,293.4	27.5	52.9	-67.63	1,867.1	-1,596.3	2,626.7	2,569.9	56.71	46.317			
7,598.6	7,392.0	8,106.7	7,392.0	27.6	52.9	-67.63	1,867.1	-1,596.3	2,626.7	2,569.7	56.94	46.128			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 21C-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-40.0	-0.2	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-40.0	-0.2	40.0	39.8	0.19	214.354		
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-40.0	-0.2	40.0	39.4	0.64	62.867		
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-40.0	-0.2	40.0	38.9	1.09	36.835		
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-40.0	-0.2	40.0	38.5	1.54	26.049		
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-40.0	-0.2	40.0	38.0	1.98	20.149		
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-40.0	-0.2	40.0	37.6	2.43	16.428		
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-40.0	-0.2	40.0	37.1	2.88	13.867		
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-40.0	-0.2	40.0	36.7	3.33	11.997		
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-40.0	-0.2	40.0	36.2	3.78	10.571		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-40.0	-0.2	40.0	35.8	4.23	9.448		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-40.0	-0.2	40.0	35.4	4.57	8.751		
1,100.0	1,100.0	1,100.3	1,100.3	2.3	2.3	100.76	-39.9	-0.3	39.9	35.3	4.68	8.540		
1,168.3	1,168.2	1,169.0	1,168.9	2.5	2.5	107.59	-38.8	-2.6	39.7	34.7	4.96	7.990 CC		
1,175.0	1,174.9	1,175.7	1,175.6	2.5	2.5	108.69	-38.7	-3.0	39.7	34.7	4.99	7.947 ES		
1,200.0	1,199.9	1,200.6	1,200.5	2.5	2.6	121.45	-38.0	-4.5	40.0	34.9	5.10	7.840 SF		
1,300.0	1,299.4	1,299.2	1,298.5	2.8	2.8	158.88	-33.4	-14.0	47.8	42.2	5.53	8.629		
1,400.0	1,398.1	1,396.0	1,394.0	3.0	3.0	-176.92	-25.2	-27.4	67.0	61.0	5.97	11.212		
1,500.0	1,495.8	1,489.6	1,485.3	3.3	3.3	-162.13	-13.2	-43.9	96.3	89.9	6.42	14.986		
1,600.0	1,591.9	1,579.4	1,571.7	3.7	3.7	-152.88	2.1	-62.8	134.0	127.1	6.92	19.371		
1,693.3	1,680.0	1,659.4	1,647.5	4.1	4.0	-146.99	18.8	-82.2	175.7	168.3	7.44	23.627		
1,700.0	1,686.3	1,665.0	1,652.8	4.2	4.1	-146.79	20.1	-83.6	178.9	171.5	7.48	23.921		
1,800.0	1,779.8	1,747.1	1,729.1	4.7	4.5	-143.84	40.3	-106.2	228.1	219.9	8.18	27.893		
1,900.0	1,873.2	1,826.2	1,801.1	5.3	5.1	-141.14	62.6	-130.1	279.6	270.7	8.94	31.269		
2,000.0	1,966.7	1,900.0	1,866.8	5.9	5.6	-138.73	85.8	-154.5	333.6	323.8	9.76	34.183		
2,100.0	2,060.2	1,974.9	1,931.9	6.5	6.3	-136.39	111.7	-181.1	390.1	379.4	10.67	36.570		
2,200.0	2,153.6	2,044.2	1,990.5	7.2	7.0	-134.33	137.7	-207.3	449.0	437.4	11.59	38.738		
2,300.0	2,247.1	2,110.2	2,044.9	7.8	7.7	-132.44	164.2	-233.7	510.3	497.7	12.53	40.727		
2,400.0	2,340.6	2,172.9	2,095.0	8.5	8.4	-130.72	190.9	-260.1	573.8	560.3	13.49	42.525		
2,500.0	2,434.0	2,243.8	2,150.6	9.2	9.3	-128.95	222.4	-290.8	639.1	624.6	14.54	43.949		
2,600.0	2,527.5	2,317.9	2,208.7	9.9	10.2	-127.41	255.3	-323.0	704.8	689.2	15.61	45.147		
2,700.0	2,620.9	2,392.1	2,266.8	10.5	11.1	-126.13	288.3	-355.2	770.7	754.0	16.69	46.184		
2,800.0	2,714.4	2,466.2	2,324.9	11.2	12.1	-125.04	321.2	-387.4	836.8	819.0	17.77	47.084		
2,900.0	2,807.9	2,540.4	2,383.1	11.9	13.1	-124.11	354.2	-419.6	903.0	884.2	18.86	47.881		
3,000.0	2,901.3	2,614.5	2,441.2	12.6	14.0	-123.31	387.1	-451.8	969.4	949.4	19.95	48.591		
3,100.0	2,994.8	2,688.7	2,499.3	13.3	15.0	-122.60	420.0	-484.1	1,035.8	1,014.8	21.04	49.221		
3,200.0	3,088.3	2,762.8	2,557.4	14.0	16.0	-121.99	453.0	-516.3	1,102.4	1,080.2	22.14	49.783		
3,300.0	3,181.7	2,837.0	2,615.5	14.7	17.0	-121.44	485.9	-548.5	1,169.0	1,145.7	23.24	50.292		
3,400.0	3,275.2	2,911.1	2,673.6	15.4	18.0	-120.95	518.9	-580.7	1,235.6	1,211.3	24.35	50.753		
3,500.0	3,368.7	2,985.3	2,731.7	16.1	19.0	-120.50	551.8	-612.9	1,302.3	1,276.9	25.45	51.170		
3,600.0	3,462.1	3,059.4	2,789.8	16.8	20.0	-120.11	584.7	-645.1	1,369.1	1,342.5	26.56	51.550		
3,700.0	3,555.6	3,133.6	2,847.9	17.5	21.0	-119.74	617.7	-677.3	1,435.8	1,408.2	27.67	51.899		
3,800.0	3,649.0	3,207.7	2,906.0	18.2	22.0	-119.41	650.6	-709.5	1,502.6	1,473.8	28.77	52.220		
3,900.0	3,742.5	3,281.9	2,964.1	18.9	23.0	-119.11	683.6	-741.7	1,569.4	1,539.6	29.89	52.514		
4,000.0	3,836.0	3,356.0	3,022.2	19.6	24.0	-118.84	716.5	-773.9	1,636.3	1,605.3	31.00	52.786		
4,100.0	3,929.4	3,430.2	3,080.3	20.3	25.0	-118.58	749.4	-806.1	1,703.2	1,671.0	32.11	53.039		
4,200.0	4,022.9	3,504.3	3,138.4	21.0	26.0	-118.34	782.4	-838.3	1,770.0	1,736.8	33.23	53.273		
4,300.0	4,116.4	3,578.5	3,196.5	21.7	27.0	-118.12	815.3	-870.5	1,836.9	1,802.6	34.34	53.491		
4,400.0	4,209.8	3,652.6	3,254.6	22.4	28.0	-117.92	848.3	-902.7	1,903.9	1,868.4	35.46	53.694		
4,419.3	4,227.9	3,666.9	3,265.8	22.6	28.2	-117.88	854.6	-908.9	1,916.8	1,881.1	35.67	53.732		
4,500.0	4,303.9	3,727.2	3,313.0	23.1	29.0	-119.55	881.4	-935.1	1,970.2	1,933.2	37.01	53.232		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Valley Farms G - Valley Farms G 21C-14-06-92 - Wellbore #1 - Design #1													Offset Site Error: 0.0 usft	
Survey Program: 0-MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,600.0	4,399.5	3,802.9	3,372.3	23.5	30.0	-121.33	915.0	-967.9	2,034.6	1,996.1	38.56	52.766		
4,700.0	4,496.6	3,879.5	3,432.4	23.9	31.1	-122.84	949.1	-1,001.2	2,097.0	2,057.0	40.03	52.381		
4,800.0	4,594.8	3,957.0	3,493.1	24.3	32.1	-124.11	983.5	-1,034.9	2,157.4	2,115.9	41.42	52.084		
4,900.0	4,693.8	4,034.9	3,554.2	24.5	33.2	-125.16	1,018.1	-1,068.7	2,215.5	2,172.8	42.71	51.879		
5,000.0	4,793.4	4,113.2	3,615.5	24.7	34.3	-126.02	1,052.9	-1,102.7	2,271.5	2,227.6	43.88	51.769		
5,100.0	4,893.4	4,191.6	3,677.0	24.9	35.3	-126.70	1,087.7	-1,136.8	2,325.3	2,280.3	44.93	51.757		
5,113.6	4,907.0	4,202.3	3,685.3	24.9	35.5	-83.50	1,092.4	-1,141.4	2,332.4	2,287.4	45.06	51.763		
5,200.0	4,993.4	4,270.0	3,738.4	24.9	36.4	-82.74	1,122.5	-1,170.8	2,377.8	2,332.3	45.58	52.168		
5,300.0	5,093.4	4,348.3	3,799.8	25.0	37.5	-81.90	1,157.3	-1,204.8	2,430.8	2,384.7	46.17	52.648		
5,400.0	5,193.4	4,426.7	3,861.2	25.1	38.5	-81.09	1,192.1	-1,238.9	2,484.3	2,437.5	46.75	53.145		
5,500.0	5,293.4	5,984.2	5,293.4	25.2	47.9	-74.45	1,537.7	-1,576.7	2,500.9	2,450.2	50.77	49.260		
5,600.0	5,393.4	6,084.2	5,393.4	25.3	48.0	-74.45	1,537.7	-1,576.7	2,500.9	2,450.0	50.96	49.081		
5,700.0	5,493.4	6,184.2	5,493.4	25.4	48.0	-74.45	1,537.7	-1,576.7	2,500.9	2,449.8	51.14	48.900		
5,800.0	5,593.4	6,284.2	5,593.4	25.5	48.1	-74.45	1,537.7	-1,576.7	2,500.9	2,449.6	51.34	48.718		
5,900.0	5,693.4	6,384.2	5,693.4	25.6	48.2	-74.45	1,537.7	-1,576.7	2,500.9	2,449.4	51.53	48.533		
6,000.0	5,793.4	6,484.2	5,793.4	25.7	48.2	-74.45	1,537.7	-1,576.7	2,500.9	2,449.2	51.73	48.348		
6,100.0	5,893.4	6,584.2	5,893.4	25.8	48.3	-74.45	1,537.7	-1,576.7	2,500.9	2,449.0	51.93	48.160		
6,200.0	5,993.4	6,684.2	5,993.4	26.0	48.3	-74.45	1,537.7	-1,576.7	2,500.9	2,448.8	52.13	47.972		
6,300.0	6,093.4	6,784.2	6,093.4	26.1	48.4	-74.45	1,537.7	-1,576.7	2,500.9	2,448.6	52.34	47.782		
6,400.0	6,193.4	6,884.2	6,193.4	26.2	48.4	-74.45	1,537.7	-1,576.7	2,500.9	2,448.4	52.55	47.591		
6,500.0	6,293.4	6,984.2	6,293.4	26.3	48.5	-74.45	1,537.7	-1,576.7	2,500.9	2,448.2	52.76	47.398		
6,600.0	6,393.4	7,084.2	6,393.4	26.4	48.6	-74.45	1,537.7	-1,576.7	2,500.9	2,448.0	52.98	47.205		
6,700.0	6,493.4	7,184.2	6,493.4	26.5	48.6	-74.45	1,537.7	-1,576.7	2,500.9	2,447.7	53.20	47.011		
6,800.0	6,593.4	7,284.2	6,593.4	26.6	48.7	-74.45	1,537.7	-1,576.7	2,500.9	2,447.5	53.42	46.815		
6,900.0	6,693.4	7,384.2	6,693.4	26.7	48.8	-74.45	1,537.7	-1,576.7	2,500.9	2,447.3	53.65	46.619		
7,000.0	6,793.4	7,484.2	6,793.4	26.9	48.8	-74.45	1,537.7	-1,576.7	2,500.9	2,447.1	53.87	46.422		
7,100.0	6,893.4	7,584.2	6,893.4	27.0	48.9	-74.45	1,537.7	-1,576.7	2,500.9	2,446.8	54.10	46.225		
7,200.0	6,993.4	7,684.2	6,993.4	27.1	49.0	-74.45	1,537.7	-1,576.7	2,500.9	2,446.6	54.34	46.026		
7,300.0	7,093.4	7,784.2	7,093.4	27.2	49.0	-74.45	1,537.7	-1,576.7	2,500.9	2,446.4	54.57	45.827		
7,400.0	7,193.4	7,884.2	7,193.4	27.4	49.1	-74.45	1,537.7	-1,576.7	2,500.9	2,446.1	54.81	45.628		
7,500.0	7,293.4	7,984.2	7,293.4	27.5	49.2	-74.45	1,537.7	-1,576.7	2,500.9	2,445.9	55.05	45.428		
7,598.6	7,392.0	8,082.8	7,392.0	27.6	49.2	-74.45	1,537.7	-1,576.7	2,500.9	2,445.7	55.29	45.231		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 21D-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-70.0	-0.3	70.0	69.8	0.19	375.121		
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-70.0	-0.3	70.0	69.3	0.64	110.018		
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-70.0	-0.3	70.0	68.9	1.09	64.462		
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-70.0	-0.3	70.0	68.4	1.54	45.586		
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-70.0	-0.3	70.0	68.0	1.98	35.261		
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-70.0	-0.3	70.0	67.5	2.43	28.749		
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-70.0	-0.3	70.0	67.1	2.88	24.267		
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-70.0	-0.3	70.0	66.6	3.33	20.995		
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-70.0	-0.3	70.0	66.2	3.78	18.500		
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-70.0	-0.3	70.0	65.7	4.23	16.535		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-70.0	-0.3	70.0	65.4	4.57	15.315		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-70.0	-0.3	70.0	65.3	4.68	14.964		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	100.38	-70.0	-0.3	70.0	64.6	5.00	13.904		
1,175.0	1,174.9	1,176.9	1,176.8	2.5	2.5	103.93	-68.8	-1.7	69.6	64.2	5.11	13.565		
1,200.0	1,199.9	1,202.3	1,202.2	2.5	2.6	114.41	-68.0	-2.8	69.3	64.2	5.16	13.448 CC, ES		
1,209.5	1,209.3	1,211.9	1,211.9	2.6	2.6	117.82	-67.6	-3.2	69.3	66.2	5.55	12.915 SF		
1,300.0	1,299.4	1,302.9	1,302.4	2.8	2.8	143.12	-62.1	-10.0	71.7	76.8	5.99	13.816		
1,400.0	1,398.1	1,400.9	1,399.2	3.0	3.0	165.00	-52.6	-21.7	82.8	98.9	6.44	16.353		
1,500.0	1,495.8	1,495.4	1,491.5	3.3	3.3	-177.91	-40.0	-37.2	105.3	132.0	6.92	20.071		
1,600.0	1,591.9	1,585.5	1,578.4	3.7	3.7	-165.73	-24.9	-55.7	138.9	171.3	7.41	24.105		
1,693.3	1,680.0	1,665.3	1,654.1	4.1	4.0	-157.71	-9.0	-75.3	178.7	174.4	7.46	24.390		
1,700.0	1,686.3	1,670.9	1,659.4	4.2	4.1	-157.36	-7.8	-76.8	181.9	222.2	8.14	28.304		
1,800.0	1,779.8	1,752.1	1,735.0	4.7	4.5	-152.71	10.9	-99.8	230.3	273.1	8.88	31.735		
1,900.0	1,873.2	1,829.9	1,806.0	5.3	5.0	-148.95	30.9	-124.5	281.9	326.9	9.66	34.856		
2,000.0	1,966.7	1,900.0	1,868.5	5.9	5.5	-145.96	50.9	-149.0	336.6	394.1	10.54	37.383		
2,100.0	2,060.2	1,974.6	1,933.5	6.5	6.2	-143.12	73.9	-177.3	394.1	443.0	11.42	39.796		
2,200.0	2,153.6	2,041.4	1,990.4	7.2	6.8	-140.79	96.1	-204.6	454.4	505.0	12.33	41.951		
2,300.0	2,247.1	2,107.1	2,044.8	7.8	7.5	-138.69	119.3	-233.2	517.3	568.0	13.33	43.624		
2,400.0	2,340.6	2,182.4	2,106.7	8.5	8.4	-136.67	146.4	-266.5	581.4	631.5	14.33	45.057		
2,500.0	2,434.0	2,257.7	2,168.5	9.2	9.2	-135.03	173.4	-299.9	645.8	695.1	15.35	46.298		
2,600.0	2,527.5	2,333.0	2,230.3	9.9	10.1	-133.69	200.5	-333.2	710.5	758.9	16.36	47.378		
2,700.0	2,620.9	2,408.3	2,292.2	10.5	11.0	-132.57	227.6	-366.5	775.3	822.9	17.39	48.316		
2,800.0	2,714.4	2,483.6	2,354.0	11.2	11.9	-131.61	254.7	-399.8	840.3	887.0	18.43	49.142		
2,900.0	2,807.9	2,558.8	2,415.8	11.9	12.8	-130.80	281.8	-433.2	905.5	951.2	19.46	49.877		
3,000.0	2,901.3	2,634.1	2,477.7	12.6	13.7	-130.09	308.8	-466.5	970.7	1,015.5	20.50	50.533		
3,100.0	2,994.8	2,709.4	2,539.5	13.3	14.6	-129.46	335.9	-499.8	1,036.0	1,079.8	21.55	51.117		
3,200.0	3,088.3	2,784.7	2,601.3	14.0	15.5	-128.92	363.0	-533.2	1,101.3	1,144.2	22.59	51.644		
3,300.0	3,181.7	2,860.0	2,663.2	14.7	16.5	-128.43	390.1	-566.5	1,166.7	1,208.6	23.64	52.121		
3,400.0	3,275.2	2,935.3	2,725.0	15.4	17.4	-127.99	417.2	-599.8	1,232.2	1,273.0	24.69	52.554		
3,500.0	3,368.7	3,010.5	2,786.8	16.1	18.3	-127.60	444.2	-633.1	1,297.7	1,337.5	25.75	52.949		
3,600.0	3,462.1	3,085.8	2,848.7	16.8	19.2	-127.24	471.3	-666.5	1,363.2	1,402.0	26.80	53.309		
3,700.0	3,555.6	3,161.1	2,910.5	17.5	20.2	-126.92	498.4	-699.8	1,428.8	1,466.5	27.86	53.641		
3,800.0	3,649.0	3,236.4	2,972.3	18.2	21.1	-126.63	525.5	-733.1	1,494.3	1,531.0	28.92	53.946		
3,900.0	3,742.5	3,311.7	3,034.2	18.9	22.0	-126.36	552.6	-766.5	1,559.9	1,595.6	29.98	54.228		
4,000.0	3,836.0	3,386.9	3,096.0	19.6	23.0	-126.11	579.6	-799.8	1,625.6	1,660.1	31.04	54.488		
4,100.0	3,929.4	3,462.2	3,157.8	20.3	23.9	-125.88	606.7	-833.1	1,691.2	1,724.7	32.10	54.731		
4,200.0	4,022.9	3,537.5	3,219.7	21.0	24.8	-125.67	633.8	-866.4	1,756.8	1,822.5	33.16	54.956		
4,300.0	4,116.4	3,612.8	3,281.5	21.7	25.8	-125.47	660.9	-899.8	1,822.5	1,888.2	34.23	55.167		
4,400.0	4,209.8	3,688.1	3,343.3	22.4	26.7	-125.29	688.0	-933.1	1,888.2	1,900.8	34.43	55.206		
4,419.3	4,227.9	3,702.6	3,355.3	22.6	26.9	-125.25	693.2	-939.5	1,900.8	1,917.4	35.67	54.753		
4,500.0	4,303.9	3,763.9	3,405.6	23.1	27.7	-126.73	715.2	-966.7	1,953.1					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Valley Farms G - Valley Farms G 21D-14-06-92 - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,600.0	4,399.5	3,841.3	3,469.1	23.5	28.6	-128.28	743.1	-1,000.9	2,015.7	1,978.6	37.10	54.330		
4,700.0	4,496.6	3,920.0	3,533.8	23.9	29.6	-129.56	771.4	-1,035.8	2,075.8	2,037.3	38.46	53.972		
4,800.0	4,594.8	3,999.8	3,599.4	24.3	30.6	-130.60	800.1	-1,071.1	2,133.3	2,093.6	39.73	53.689		
4,900.0	4,693.8	4,080.6	3,665.7	24.5	31.6	-131.43	829.2	-1,106.9	2,188.2	2,147.3	40.91	53.488		
5,000.0	4,793.4	4,162.1	3,732.6	24.7	32.6	-132.07	858.5	-1,142.9	2,240.4	2,198.4	41.98	53.373		
5,100.0	4,893.4	4,244.0	3,799.9	24.9	33.7	-132.54	887.9	-1,179.2	2,289.9	2,247.0	42.92	53.348		
5,113.6	4,907.0	4,255.2	3,809.1	24.9	33.8	-89.30	892.0	-1,184.2	2,296.5	2,253.4	43.04	53.351		
5,200.0	4,993.4	4,326.1	3,867.4	24.9	34.7	-88.60	917.5	-1,215.6	2,337.9	2,294.3	43.58	53.640		
5,300.0	5,093.4	4,408.3	3,934.9	25.0	35.7	-87.81	947.0	-1,251.9	2,386.3	2,342.1	44.20	53.987		
5,400.0	5,193.4	5,764.6	5,193.4	25.1	43.8	-81.95	1,207.8	-1,572.9	2,429.6	2,381.4	48.16	50.447		
5,500.0	5,293.4	5,864.6	5,293.4	25.2	43.9	-81.95	1,207.8	-1,572.9	2,429.6	2,381.2	48.35	50.247		
5,600.0	5,393.4	5,964.6	5,393.4	25.3	43.9	-81.95	1,207.8	-1,572.9	2,429.6	2,381.0	48.55	50.044		
5,700.0	5,493.4	6,064.6	5,493.4	25.4	44.0	-81.95	1,207.8	-1,572.9	2,429.6	2,380.8	48.75	49.840		
5,800.0	5,593.4	6,164.6	5,593.4	25.5	44.0	-81.95	1,207.8	-1,572.9	2,429.6	2,380.6	48.95	49.634		
5,900.0	5,693.4	6,264.6	5,693.4	25.6	44.1	-81.95	1,207.8	-1,572.9	2,429.6	2,380.4	49.16	49.426		
6,000.0	5,793.4	6,364.6	5,793.4	25.7	44.2	-81.95	1,207.8	-1,572.9	2,429.6	2,380.2	49.36	49.217		
6,100.0	5,893.4	6,464.6	5,893.4	25.8	44.2	-81.95	1,207.8	-1,572.9	2,429.6	2,380.0	49.58	49.007		
6,200.0	5,993.4	6,564.6	5,993.4	26.0	44.3	-81.95	1,207.8	-1,572.9	2,429.6	2,379.8	49.79	48.795		
6,300.0	6,093.4	6,664.6	6,093.4	26.1	44.3	-81.95	1,207.8	-1,572.9	2,429.6	2,379.5	50.01	48.582		
6,400.0	6,193.4	6,764.6	6,193.4	26.2	44.4	-81.95	1,207.8	-1,572.9	2,429.6	2,379.3	50.23	48.368		
6,500.0	6,293.4	6,864.6	6,293.4	26.3	44.5	-81.95	1,207.8	-1,572.9	2,429.6	2,379.1	50.45	48.153		
6,600.0	6,393.4	6,964.6	6,393.4	26.4	44.5	-81.95	1,207.8	-1,572.9	2,429.6	2,378.9	50.68	47.937		
6,700.0	6,493.4	7,064.6	6,493.4	26.5	44.6	-81.95	1,207.8	-1,572.9	2,429.6	2,378.6	50.91	47.720		
6,800.0	6,593.4	7,164.6	6,593.4	26.6	44.7	-81.95	1,207.8	-1,572.9	2,429.6	2,378.4	51.15	47.503		
6,900.0	6,693.4	7,264.6	6,693.4	26.7	44.8	-81.95	1,207.8	-1,572.9	2,429.6	2,378.2	51.38	47.285		
7,000.0	6,793.4	7,364.6	6,793.4	26.9	44.8	-81.95	1,207.8	-1,572.9	2,429.6	2,377.9	51.62	47.066		
7,100.0	6,893.4	7,464.6	6,893.4	27.0	44.9	-81.95	1,207.8	-1,572.9	2,429.6	2,377.7	51.86	46.847		
7,200.0	6,993.4	7,564.6	6,993.4	27.1	45.0	-81.95	1,207.8	-1,572.9	2,429.6	2,377.4	52.11	46.627		
7,300.0	7,093.4	7,664.6	7,093.4	27.2	45.1	-81.95	1,207.8	-1,572.9	2,429.6	2,377.2	52.35	46.407		
7,400.0	7,193.4	7,764.6	7,193.4	27.4	45.1	-81.95	1,207.8	-1,572.9	2,429.6	2,377.0	52.60	46.186		
7,500.0	7,293.4	7,864.6	7,293.4	27.5	45.2	-81.95	1,207.8	-1,572.9	2,429.6	2,376.7	52.86	45.966		
7,598.6	7,392.0	7,963.2	7,392.0	27.6	45.3	-81.95	1,207.8	-1,572.9	2,429.6	2,376.4	53.11	45.748		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 22A-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-100.0	-0.4	100.0								
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-100.0	-0.4	100.0	99.8	0.19	535.888					
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-100.0	-0.4	100.0	99.3	0.64	157.169					
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-100.0	-0.4	100.0	98.9	1.09	92.089					
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-100.0	-0.4	100.0	98.4	1.54	65.123					
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-100.0	-0.4	100.0	98.0	1.98	50.372					
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-100.0	-0.4	100.0	97.5	2.43	41.070					
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-100.0	-0.4	100.0	97.1	2.88	34.668					
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-100.0	-0.4	100.0	96.6	3.33	29.992					
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-100.0	-0.4	100.0	96.2	3.78	26.428					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-100.0	-0.4	100.0	95.7	4.23	23.621					
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-100.0	-0.4	100.0	95.4	4.57	21.878 CC					
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	100.34	-100.0	-0.4	100.0	95.3	4.68	21.374 ES					
1,175.0	1,174.9	1,175.5	1,175.5	2.5	2.5	101.97	-99.9	-0.4	100.5	95.5	5.00	20.085					
1,200.0	1,199.9	1,200.8	1,200.8	2.5	2.6	111.14	-99.7	-0.5	100.8	95.7	5.11	19.710					
1,300.0	1,299.4	1,301.9	1,301.8	2.8	2.8	132.08	-97.9	-1.4	104.6	99.1	5.56	18.827 SF					
1,400.0	1,398.1	1,402.2	1,402.1	3.0	3.0	144.64	-94.5	-2.9	113.5	107.5	6.00	18.938					
1,500.0	1,495.8	1,501.6	1,501.3	3.3	3.2	154.53	-89.6	-5.2	128.3	121.9	6.41	20.006					
1,600.0	1,591.9	1,599.7	1,599.2	3.7	3.5	162.64	-83.3	-8.2	149.4	142.6	6.80	21.951					
1,693.3	1,680.0	1,689.0	1,688.2	4.1	3.7	168.68	-76.3	-11.4	174.8	167.7	7.15	24.469					
1,700.0	1,686.3	1,695.4	1,694.5	4.2	3.7	168.99	-75.8	-11.7	176.9	169.7	7.18	24.651					
1,800.0	1,779.8	1,789.6	1,788.4	4.7	3.9	172.86	-68.4	-15.1	207.9	200.3	7.64	27.214					
1,900.0	1,873.2	1,883.9	1,882.3	5.3	4.2	175.73	-60.9	-18.6	239.6	231.4	8.12	29.514					
2,000.0	1,966.7	1,976.5	1,974.5	5.9	4.4	177.99	-53.5	-22.4	271.8	263.1	8.60	31.581					
2,100.0	2,060.2	2,065.1	2,062.4	6.5	4.6	-179.54	-44.6	-29.6	305.6	296.5	9.11	33.553					
2,200.0	2,153.6	2,151.3	2,147.2	7.2	4.9	-176.81	-34.1	-40.7	341.6	331.9	9.64	35.428					
2,300.0	2,247.1	2,234.7	2,228.4	7.8	5.2	-173.99	-22.1	-55.3	380.2	369.9	10.22	37.200					
2,400.0	2,340.6	2,315.0	2,305.7	8.5	5.5	-171.19	-9.0	-73.0	421.5	410.7	10.85	38.867					
2,500.0	2,434.0	2,392.0	2,378.6	9.2	5.8	-168.49	5.1	-93.1	465.9	454.3	11.52	40.423					
2,600.0	2,527.5	2,465.6	2,447.3	9.9	6.2	-165.93	19.9	-115.2	513.2	501.0	12.26	41.863					
2,700.0	2,620.9	2,535.7	2,511.5	10.5	6.6	-163.53	35.1	-138.9	563.7	550.6	13.04	43.223					
2,800.0	2,714.4	2,600.0	2,569.2	11.2	7.0	-161.39	50.0	-162.8	617.1	603.3	13.83	44.638					
2,900.0	2,807.9	2,665.7	2,627.1	11.9	7.6	-159.27	66.2	-189.3	673.5	658.8	14.69	45.838					
3,000.0	2,901.3	2,725.6	2,678.7	12.6	8.1	-157.39	81.8	-215.4	732.6	717.1	15.55	47.122					
3,100.0	2,994.8	2,791.3	2,734.3	13.3	8.7	-155.44	99.7	-245.6	794.2	777.7	16.49	48.162					
3,200.0	3,088.3	2,865.9	2,797.1	14.0	9.4	-153.48	120.0	-280.2	856.7	839.2	17.52	48.907					
3,300.0	3,181.7	2,940.4	2,860.0	14.7	10.2	-151.76	140.3	-314.8	919.8	901.3	18.54	49.599					
3,400.0	3,275.2	3,015.0	2,922.9	15.4	10.9	-150.26	160.6	-349.3	983.4	963.8	19.57	50.241					
3,500.0	3,368.7	3,089.5	2,985.7	16.1	11.7	-148.92	180.9	-383.9	1,047.3	1,026.7	20.60	50.835					
3,600.0	3,462.1	3,164.1	3,048.6	16.8	12.5	-147.73	201.3	-418.4	1,111.6	1,090.0	21.63	51.387					
3,700.0	3,555.6	3,238.6	3,111.4	17.5	13.4	-146.67	221.6	-453.0	1,176.1	1,153.5	22.66	51.906					
3,800.0	3,649.0	3,313.2	3,174.3	18.2	14.2	-145.71	241.9	-487.6	1,240.9	1,217.2	23.68	52.395					
3,900.0	3,742.5	3,387.8	3,237.1	18.9	15.0	-144.84	262.2	-522.1	1,305.9	1,281.2	24.71	52.854					
4,000.0	3,836.0	3,462.3	3,300.0	19.6	15.8	-144.05	282.6	-556.7	1,371.0	1,345.2	25.73	53.286					
4,100.0	3,929.4	3,536.9	3,362.9	20.3	16.7	-143.34	302.9	-591.2	1,436.2	1,409.5	26.75	53.694					
4,200.0	4,022.9	3,611.4	3,425.7	21.0	17.5	-142.68	323.2	-625.8	1,501.6	1,473.8	27.77	54.082					
4,300.0	4,116.4	3,686.0	3,488.6	21.7	18.4	-142.07	343.5	-660.3	1,567.1	1,538.3	28.78	54.447					
4,400.0	4,209.8	3,760.5	3,551.4	22.4	19.2	-141.52	363.8	-694.9	1,632.7	1,602.9	29.80	54.792					
4,419.3	4,227.9	3,774.9	3,563.6	22.6	19.4	-141.41	367.8	-701.6	1,645.3	1,615.3	29.99	54.857					
4,500.0	4,303.9	3,835.8	3,614.9	23.1	20.1	-142.22	384.3	-729.8	1,697.3	1,666.3	30.99	54.775					
4,600.0	4,399.5	3,912.9	3,679.9	23.5	21.0	-143.00	405.4	-765.6	1,758.9	1,726.8	32.15	54.708					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Valley Farms G - Valley Farms G 22A-14-06-92 - Wellbore #1 - Design #1													Offset Site Error: 0.0 usft	
Survey Program: 0-MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	3,991.9	3,746.5	23.9	21.9	-143.57	426.9	-802.2	1,817.4	1,784.1	33.27	54.620		
4,800.0	4,594.8	4,072.4	3,814.4	24.3	22.9	-143.97	448.9	-839.5	1,872.6	1,838.2	34.34	54.535		
4,900.0	4,693.8	4,154.3	3,883.4	24.5	23.8	-144.21	471.2	-877.4	1,924.5	1,889.1	35.33	54.469		
5,000.0	4,793.4	4,237.2	3,953.4	24.7	24.8	-144.30	493.8	-915.9	1,973.1	1,936.8	36.24	54.438		
5,100.0	4,893.4	4,321.1	4,024.1	24.9	25.8	-144.28	516.6	-954.8	2,018.3	1,981.2	37.06	54.454		
5,113.6	4,907.0	4,332.6	4,033.7	24.9	25.9	-100.97	519.8	-960.1	2,024.2	1,987.0	37.17	54.460		
5,200.0	4,993.4	4,405.4	4,095.1	24.9	26.7	-100.17	539.6	-993.8	2,061.7	2,023.9	37.81	54.522		
5,300.0	5,093.4	4,489.7	4,166.2	25.0	27.7	-99.28	562.6	-1,032.9	2,105.5	2,066.9	38.55	54.620		
5,400.0	5,193.4	4,574.0	4,237.3	25.1	28.7	-98.42	585.6	-1,072.0	2,149.7	2,110.5	39.26	54.753		
5,500.0	5,293.4	4,658.3	4,308.4	25.2	29.7	-97.58	608.6	-1,111.1	2,194.4	2,154.5	39.96	54.915		
5,600.0	5,393.4	4,742.7	4,379.5	25.3	30.7	-96.78	631.6	-1,150.2	2,239.5	2,198.9	40.64	55.105		
5,700.0	5,493.4	4,827.0	4,450.6	25.4	31.7	-96.01	654.5	-1,189.2	2,285.0	2,243.6	41.31	55.319		
5,800.0	5,593.4	4,911.3	4,521.6	25.5	32.7	-95.26	677.5	-1,228.3	2,330.8	2,288.8	41.95	55.554		
5,900.0	5,693.4	4,995.6	4,592.7	25.6	33.7	-94.54	700.5	-1,267.4	2,376.9	2,334.3	42.59	55.809		
6,000.0	5,793.4	5,079.5	4,673.4	25.7	34.7	-93.82	723.5	-1,306.5	2,423.1	2,381.1	43.23	56.064		
6,100.0	5,893.4	5,163.4	4,753.4	25.8	35.7	-93.10	746.5	-1,345.6	2,469.9	2,428.1	43.87	56.329		
6,200.0	5,993.4	5,247.3	4,833.4	25.9	36.7	-92.38	769.5	-1,384.7	2,516.7	2,474.9	44.51	56.594		
6,300.0	6,093.4	5,331.2	4,913.4	26.0	37.7	-91.66	792.5	-1,423.8	2,563.5	2,521.7	45.15	56.859		
6,400.0	6,193.4	5,415.1	4,993.4	26.1	38.7	-90.94	815.5	-1,462.9	2,610.3	2,568.5	45.79	57.124		
6,500.0	6,293.4	5,499.0	5,073.4	26.2	39.7	-90.22	838.5	-1,502.0	2,657.1	2,615.3	46.43	57.389		
6,600.0	6,393.4	5,582.9	5,153.4	26.3	40.7	-89.50	861.5	-1,541.1	2,703.9	2,662.1	47.07	57.654		
6,700.0	6,493.4	5,666.8	5,233.4	26.4	41.7	-88.78	884.5	-1,580.2	2,750.7	2,708.9	47.71	57.919		
6,800.0	6,593.4	5,750.7	5,313.4	26.5	42.7	-88.06	907.5	-1,619.3	2,797.5	2,755.7	48.35	58.184		
6,900.0	6,693.4	5,834.6	5,393.4	26.6	43.7	-87.34	930.5	-1,658.4	2,844.3	2,802.5	48.99	58.449		
7,000.0	6,793.4	5,918.5	5,473.4	26.7	44.7	-86.62	953.5	-1,697.5	2,891.1	2,849.3	49.63	58.714		
7,100.0	6,893.4	6,002.4	5,553.4	26.8	45.7	-85.90	976.5	-1,736.6	2,937.9	2,896.1	50.27	58.979		
7,200.0	6,993.4	6,086.3	5,633.4	26.9	46.7	-85.18	999.5	-1,775.7	2,984.7	2,942.9	50.91	59.244		
7,300.0	7,093.4	6,170.2	5,713.4	27.0	47.7	-84.46	1,022.5	-1,814.8	3,031.5	2,989.7	51.55	59.509		
7,400.0	7,193.4	6,254.1	5,793.4	27.1	48.7	-83.74	1,045.5	-1,853.9	3,078.3	3,036.5	52.19	59.774		
7,500.0	7,293.4	6,338.0	5,873.4	27.2	49.7	-83.02	1,068.5	-1,893.0	3,125.1	3,083.3	52.83	60.039		
7,598.6	7,392.0	6,421.2	5,953.4	27.3	50.7	-82.30	1,091.5	-1,932.1	3,171.9	3,130.1	53.47	60.304		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 22B-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-77.25	5.1	-22.5	23.0					
100.0	100.0	100.0	100.0	0.1	0.1	-77.25	5.1	-22.5	23.0	22.9	0.19	123.512		
200.0	200.0	200.0	200.0	0.3	0.3	-77.25	5.1	-22.5	23.0	22.4	0.64	36.224		
300.0	300.0	300.0	300.0	0.5	0.5	-77.25	5.1	-22.5	23.0	22.0	1.09	21.225		
400.0	400.0	400.0	400.0	0.8	0.8	-77.25	5.1	-22.5	23.0	21.5	1.54	15.010		
500.0	500.0	500.0	500.0	1.0	1.0	-77.25	5.1	-22.5	23.0	21.1	1.98	11.610		
600.0	600.0	600.0	600.0	1.2	1.2	-77.25	5.1	-22.5	23.0	20.6	2.43	9.466		
700.0	700.0	700.0	700.0	1.4	1.4	-77.25	5.1	-22.5	23.0	20.2	2.88	7.990		
800.0	800.0	800.0	800.0	1.7	1.7	-77.25	5.1	-22.5	23.0	19.7	3.33	6.913		
900.0	900.0	900.0	900.0	1.9	1.9	-77.25	5.1	-22.5	23.0	19.3	3.78	6.091		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-77.25	5.1	-22.5	23.0	18.8	4.23	5.444		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-77.25	5.1	-22.5	23.0	18.5	4.57	5.043 CC, ES		
1,100.0	1,100.0	1,099.8	1,099.8	2.3	2.3	-157.09	5.2	-22.6	23.3	18.7	4.68	4.991 SF		
1,175.0	1,174.9	1,173.8	1,173.7	2.5	2.5	-155.08	7.7	-24.0	27.9	22.9	4.99	5.592		
1,200.0	1,199.9	1,198.2	1,198.1	2.5	2.6	-146.31	9.0	-24.9	30.6	25.5	5.10	6.001		
1,300.0	1,299.4	1,294.7	1,294.1	2.8	2.8	-133.27	15.1	-31.9	46.5	41.0	5.53	8.415		
1,400.0	1,398.1	1,388.1	1,386.5	3.0	3.0	-132.10	22.3	-43.9	71.0	65.0	5.97	11.882		
1,500.0	1,495.8	1,477.4	1,473.9	3.3	3.3	-132.99	30.4	-60.2	104.2	97.8	6.43	16.194		
1,600.0	1,591.9	1,561.7	1,555.4	3.7	3.6	-133.83	39.1	-79.7	145.9	139.0	6.92	21.088		
1,693.3	1,680.0	1,635.2	1,625.5	4.1	3.9	-134.22	47.4	-100.1	192.0	184.6	7.40	25.937		
1,700.0	1,686.3	1,640.3	1,630.3	4.2	3.9	-134.42	48.0	-101.6	195.5	188.1	7.44	26.285		
1,800.0	1,779.8	1,714.0	1,699.5	4.7	4.3	-136.51	57.2	-125.4	250.6	242.6	8.02	31.257		
1,900.0	1,873.2	1,783.9	1,764.0	5.3	4.7	-137.58	66.5	-150.6	309.3	300.6	8.63	35.822		
2,000.0	1,966.7	1,849.9	1,823.8	5.9	5.2	-138.08	75.8	-176.9	371.0	361.7	9.27	40.007		
2,100.0	2,060.2	1,915.3	1,881.9	6.5	5.7	-138.28	85.6	-205.2	435.4	425.5	9.94	43.810		
2,200.0	2,153.6	1,991.0	1,948.9	7.2	6.4	-138.40	97.2	-238.7	500.7	490.1	10.66	46.968		
2,300.0	2,247.1	2,066.8	2,015.8	7.8	7.0	-138.49	108.7	-272.3	566.0	554.6	11.39	49.693		
2,400.0	2,340.6	2,142.5	2,082.7	8.5	7.7	-138.57	120.2	-305.8	631.3	619.2	12.14	52.016		
2,500.0	2,434.0	2,218.2	2,149.6	9.2	8.4	-138.63	131.8	-339.3	696.6	683.7	12.90	54.005		
2,600.0	2,527.5	2,293.9	2,216.5	9.9	9.2	-138.68	143.3	-372.9	761.9	748.2	13.68	55.714		
2,700.0	2,620.9	2,369.7	2,283.5	10.5	9.9	-138.72	154.8	-406.4	827.2	812.8	14.46	57.189		
2,800.0	2,714.4	2,445.4	2,350.4	11.2	10.6	-138.75	166.3	-439.9	892.5	877.3	15.26	58.477		
2,900.0	2,807.9	2,521.1	2,417.3	11.9	11.4	-138.79	177.9	-473.4	957.8	941.8	16.07	59.609		
3,000.0	2,901.3	2,596.9	2,484.2	12.6	12.1	-138.81	189.4	-507.0	1,023.1	1,006.2	16.88	60.607		
3,100.0	2,994.8	2,672.6	2,551.1	13.3	12.9	-138.84	200.9	-540.5	1,088.4	1,070.7	17.70	61.488		
3,200.0	3,088.3	2,748.3	2,618.1	14.0	13.6	-138.86	212.5	-574.0	1,153.7	1,135.2	18.53	62.274		
3,300.0	3,181.7	2,824.1	2,685.0	14.7	14.4	-138.88	224.0	-607.6	1,219.0	1,199.7	19.36	62.979		
3,400.0	3,275.2	2,899.8	2,751.9	15.4	15.1	-138.89	235.5	-641.1	1,284.3	1,264.2	20.19	63.613		
3,500.0	3,368.7	2,975.5	2,818.8	16.1	15.9	-138.91	247.0	-674.6	1,349.6	1,328.6	21.03	64.183		
3,600.0	3,462.1	3,051.3	2,885.7	16.8	16.6	-138.92	258.6	-708.2	1,414.9	1,393.1	21.87	64.701		
3,700.0	3,555.6	3,127.0	2,952.7	17.5	17.4	-138.93	270.1	-741.7	1,480.3	1,457.5	22.71	65.172		
3,800.0	3,649.0	3,202.7	3,019.6	18.2	18.2	-138.95	281.6	-775.2	1,545.6	1,522.0	23.56	65.602		
3,900.0	3,742.5	3,278.5	3,086.5	18.9	18.9	-138.96	293.2	-808.8	1,610.9	1,586.4	24.41	65.995		
4,000.0	3,836.0	3,354.2	3,153.4	19.6	19.7	-138.97	304.7	-842.3	1,676.2	1,650.9	25.26	66.356		
4,100.0	3,929.4	3,429.9	3,220.3	20.3	20.5	-138.98	316.2	-875.8	1,741.5	1,715.4	26.11	66.689		
4,200.0	4,022.9	3,505.7	3,287.3	21.0	21.2	-138.98	327.7	-909.3	1,806.8	1,779.8	26.97	66.997		
4,300.0	4,116.4	3,581.4	3,354.2	21.7	22.0	-138.99	339.3	-942.9	1,872.1	1,844.2	27.82	67.281		
4,400.0	4,209.8	3,657.1	3,421.1	22.4	22.8	-139.00	350.8	-976.4	1,937.4	1,908.7	28.68	67.544		
4,419.3	4,227.9	3,671.7	3,434.0	22.6	22.9	-139.00	353.0	-982.9	1,950.0	1,921.1	28.85	67.593		
4,500.0	4,303.9	3,733.7	3,488.8	23.1	23.5	-140.27	362.4	-1,010.3	2,001.7	1,971.9	29.80	67.182		
4,600.0	4,399.5	3,812.6	3,558.5	23.5	24.3	-141.59	374.5	-1,045.2	2,062.9	2,032.0	30.90	66.767		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 22B-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,700.0	4,496.6	3,893.7	3,630.2	23.9	25.2	-142.65	386.8	-1,081.2	2,120.9	2,088.9	31.95	66.379			
4,800.0	4,594.8	3,976.9	3,703.6	24.3	26.0	-143.49	399.5	-1,118.0	2,175.5	2,142.5	32.94	66.040			
4,900.0	4,693.8	4,061.7	3,778.6	24.5	26.9	-144.13	412.4	-1,155.5	2,226.5	2,192.7	33.85	65.767			
5,000.0	4,793.4	4,148.1	3,854.9	24.7	27.8	-144.59	425.5	-1,193.8	2,274.0	2,239.3	34.68	65.572			
5,100.0	4,893.4	4,235.8	3,932.4	24.9	28.7	-144.90	438.9	-1,232.6	2,317.8	2,282.4	35.41	65.461			
5,113.6	4,907.0	4,247.8	3,943.0	24.9	28.8	-101.64	440.7	-1,237.9	2,323.5	2,288.0	35.50	65.453			
5,200.0	4,993.4	4,324.1	4,010.5	24.9	29.6	-101.16	452.3	-1,271.7	2,359.4	2,323.4	36.00	65.538			
5,300.0	5,093.4	4,412.5	4,088.5	25.0	30.5	-100.61	465.8	-1,310.8	2,401.2	2,364.6	36.58	65.640			
5,400.0	5,193.4	5,561.6	5,193.4	25.1	35.3	-97.62	548.4	-1,551.2	2,405.2	2,365.6	39.58	60.760			
5,500.0	5,293.4	5,661.6	5,293.4	25.2	35.4	-97.62	548.4	-1,551.2	2,405.2	2,365.3	39.82	60.403			
5,600.0	5,393.4	5,761.6	5,393.4	25.3	35.4	-97.62	548.4	-1,551.2	2,405.2	2,365.1	40.06	60.045			
5,700.0	5,493.4	5,861.6	5,493.4	25.4	35.5	-97.62	548.4	-1,551.2	2,405.2	2,364.9	40.30	59.686			
5,800.0	5,593.4	5,961.6	5,593.4	25.5	35.6	-97.62	548.4	-1,551.2	2,405.2	2,364.6	40.54	59.325			
5,900.0	5,693.4	6,061.6	5,693.4	25.6	35.7	-97.62	548.4	-1,551.2	2,405.2	2,364.4	40.79	58.964			
6,000.0	5,793.4	6,161.6	5,793.4	25.7	35.7	-97.62	548.4	-1,551.2	2,405.2	2,364.1	41.04	58.603			
6,100.0	5,893.4	6,261.6	5,893.4	25.8	35.8	-97.62	548.4	-1,551.2	2,405.2	2,363.9	41.30	58.241			
6,200.0	5,993.4	6,361.6	5,993.4	26.0	35.9	-97.62	548.4	-1,551.2	2,405.2	2,363.6	41.55	57.879			
6,300.0	6,093.4	6,461.6	6,093.4	26.1	36.0	-97.62	548.4	-1,551.2	2,405.2	2,363.3	41.82	57.517			
6,400.0	6,193.4	6,561.6	6,193.4	26.2	36.1	-97.62	548.4	-1,551.2	2,405.2	2,363.1	42.08	57.156			
6,500.0	6,293.4	6,661.6	6,293.4	26.3	36.1	-97.62	548.4	-1,551.2	2,405.2	2,362.8	42.35	56.794			
6,600.0	6,393.4	6,761.6	6,393.4	26.4	36.2	-97.62	548.4	-1,551.2	2,405.2	2,362.5	42.62	56.433			
6,700.0	6,493.4	6,861.6	6,493.4	26.5	36.3	-97.62	548.4	-1,551.2	2,405.2	2,362.3	42.89	56.073			
6,800.0	6,593.4	6,961.6	6,593.4	26.6	36.4	-97.62	548.4	-1,551.2	2,405.2	2,362.0	43.17	55.714			
6,900.0	6,693.4	7,061.6	6,693.4	26.7	36.5	-97.62	548.4	-1,551.2	2,405.2	2,361.7	43.45	55.355			
7,000.0	6,793.4	7,161.6	6,793.4	26.9	36.6	-97.62	548.4	-1,551.2	2,405.2	2,361.4	43.73	54.998			
7,100.0	6,893.4	7,261.6	6,893.4	27.0	36.7	-97.62	548.4	-1,551.2	2,405.2	2,361.1	44.02	54.641			
7,200.0	6,993.4	7,361.6	6,993.4	27.1	36.8	-97.62	548.4	-1,551.2	2,405.2	2,360.8	44.30	54.286			
7,300.0	7,093.4	7,461.6	7,093.4	27.2	36.9	-97.62	548.4	-1,551.2	2,405.2	2,360.6	44.60	53.933			
7,400.0	7,193.4	7,561.6	7,193.4	27.4	36.9	-97.62	548.4	-1,551.2	2,405.2	2,360.3	44.89	53.580			
7,500.0	7,293.4	7,661.6	7,293.4	27.5	37.0	-97.62	548.4	-1,551.2	2,405.2	2,360.0	45.18	53.230			
7,598.6	7,392.0	7,760.3	7,392.0	27.6	37.1	-97.62	548.4	-1,551.2	2,405.2	2,359.7	45.48	52.885			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 22C-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-137.78	-24.9	-22.6	33.6						
100.0	100.0	100.0	100.0	0.1	0.1	-137.78	-24.9	-22.6	33.6	33.4	0.19	180.240			
200.0	200.0	200.0	200.0	0.3	0.3	-137.78	-24.9	-22.6	33.6	33.0	0.64	52.862			
300.0	300.0	300.0	300.0	0.5	0.5	-137.78	-24.9	-22.6	33.6	32.5	1.09	30.973			
400.0	400.0	400.0	400.0	0.8	0.8	-137.78	-24.9	-22.6	33.6	32.1	1.54	21.903			
500.0	500.0	500.0	500.0	1.0	1.0	-137.78	-24.9	-22.6	33.6	31.6	1.98	16.942			
600.0	600.0	600.0	600.0	1.2	1.2	-137.78	-24.9	-22.6	33.6	31.2	2.43	13.813			
700.0	700.0	700.0	700.0	1.4	1.4	-137.78	-24.9	-22.6	33.6	30.7	2.88	11.660			
800.0	800.0	800.0	800.0	1.7	1.7	-137.78	-24.9	-22.6	33.6	30.3	3.33	10.088			
900.0	900.0	900.0	900.0	1.9	1.9	-137.78	-24.9	-22.6	33.6	29.8	3.78	8.889			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-137.78	-24.9	-22.6	33.6	29.4	4.23	7.945			
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-137.78	-24.9	-22.6	33.6	29.1	4.57	7.359 CC, ES			
1,100.0	1,100.0	1,099.7	1,099.7	2.3	2.3	142.64	-24.9	-22.8	33.9	29.2	4.67	7.252 SF			
1,175.0	1,174.9	1,173.3	1,173.2	2.5	2.5	148.17	-24.9	-25.5	38.3	33.3	4.98	7.692			
1,200.0	1,199.9	1,197.7	1,197.6	2.5	2.5	159.02	-24.9	-27.2	41.0	36.0	5.08	8.073			
1,300.0	1,299.4	1,293.7	1,293.0	2.8	2.8	-176.37	-24.1	-37.1	59.0	53.4	5.51	10.705			
1,400.0	1,398.1	1,386.1	1,384.3	3.0	3.0	-164.94	-22.4	-51.8	87.3	81.4	5.93	14.730			
1,500.0	1,495.8	1,473.9	1,469.9	3.3	3.3	-158.70	-19.9	-70.5	125.3	119.0	6.35	19.739			
1,600.0	1,591.9	1,556.0	1,549.1	3.7	3.6	-154.80	-16.8	-92.0	172.0	165.3	6.77	25.404			
1,693.3	1,680.0	1,627.0	1,616.7	4.1	3.9	-152.15	-13.5	-113.7	222.8	215.6	7.18	31.044			
1,700.0	1,686.3	1,631.9	1,621.3	4.2	3.9	-152.15	-13.3	-115.4	226.7	219.5	7.21	31.439			
1,800.0	1,779.8	1,700.0	1,685.0	4.7	4.3	-151.90	-9.6	-139.0	286.2	278.5	7.72	37.094			
1,900.0	1,873.2	1,770.0	1,749.4	5.3	4.7	-151.39	-5.3	-166.1	348.6	340.3	8.27	42.147			
2,000.0	1,966.7	1,835.8	1,808.9	5.9	5.2	-150.78	-0.8	-193.9	413.6	404.7	8.85	46.739			
2,100.0	2,060.2	1,911.0	1,876.4	6.5	5.8	-150.18	4.5	-226.6	479.4	470.0	9.47	50.615			
2,200.0	2,153.6	1,986.2	1,943.9	7.2	6.4	-149.73	9.8	-259.2	545.3	535.2	10.11	53.950			
2,300.0	2,247.1	2,061.4	2,011.5	7.8	7.1	-149.38	15.2	-291.8	611.2	600.4	10.76	56.794			
2,400.0	2,340.6	2,136.6	2,079.0	8.5	7.7	-149.10	20.5	-324.5	677.1	665.6	11.43	59.229			
2,500.0	2,434.0	2,211.7	2,146.5	9.2	8.4	-148.86	25.8	-357.1	743.0	730.8	12.11	61.327			
2,600.0	2,527.5	2,286.9	2,214.0	9.9	9.1	-148.67	31.1	-389.7	808.9	796.0	12.81	63.138			
2,700.0	2,620.9	2,362.1	2,281.6	10.5	9.7	-148.50	36.4	-422.4	874.8	861.2	13.52	64.713			
2,800.0	2,714.4	2,437.3	2,349.1	11.2	10.4	-148.36	41.7	-455.0	940.7	926.4	14.23	66.095			
2,900.0	2,807.9	2,512.5	2,416.6	11.9	11.1	-148.23	47.0	-487.6	1,006.6	991.6	14.95	67.313			
3,000.0	2,901.3	2,587.7	2,484.2	12.6	11.8	-148.12	52.3	-520.3	1,072.5	1,056.8	15.68	68.390			
3,100.0	2,994.8	2,662.9	2,551.7	13.3	12.5	-148.02	57.6	-552.9	1,138.4	1,122.0	16.42	69.347			
3,200.0	3,088.3	2,738.1	2,619.2	14.0	13.2	-147.94	62.9	-585.5	1,204.3	1,187.2	17.15	70.203			
3,300.0	3,181.7	2,813.2	2,686.7	14.7	13.9	-147.86	68.2	-618.2	1,270.2	1,252.3	17.90	70.972			
3,400.0	3,275.2	2,888.4	2,754.3	15.4	14.6	-147.79	73.6	-650.8	1,336.2	1,317.5	18.64	71.664			
3,500.0	3,368.7	2,963.6	2,821.8	16.1	15.3	-147.73	78.9	-683.4	1,402.1	1,382.7	19.40	72.290			
3,600.0	3,462.1	3,038.8	2,889.3	16.8	16.0	-147.67	84.2	-716.1	1,468.0	1,447.9	20.15	72.859			
3,700.0	3,555.6	3,114.0	2,956.8	17.5	16.7	-147.62	89.5	-748.7	1,533.9	1,513.0	20.90	73.378			
3,800.0	3,649.0	3,189.2	3,024.4	18.2	17.4	-147.57	94.8	-781.3	1,599.8	1,578.2	21.66	73.851			
3,900.0	3,742.5	3,264.4	3,091.9	18.9	18.1	-147.53	100.1	-814.0	1,665.8	1,643.3	22.42	74.285			
4,000.0	3,836.0	3,339.6	3,159.4	19.6	18.9	-147.49	105.4	-846.6	1,731.7	1,708.5	23.19	74.684			
4,100.0	3,929.4	3,414.7	3,227.0	20.3	19.6	-147.45	110.7	-879.2	1,797.6	1,773.7	23.95	75.053			
4,200.0	4,022.9	3,489.9	3,294.5	21.0	20.3	-147.41	116.0	-911.9	1,863.5	1,838.8	24.72	75.393			
4,300.0	4,116.4	3,565.1	3,362.0	21.7	21.0	-147.38	121.3	-944.5	1,929.5	1,904.0	25.49	75.707			
4,400.0	4,209.8	3,640.3	3,429.5	22.4	21.7	-147.35	126.6	-977.1	1,995.4	1,969.1	26.26	76.000			
4,419.3	4,227.9	3,654.8	3,442.6	22.6	21.8	-147.34	127.7	-983.4	2,008.1	1,981.7	26.40	76.054			
4,500.0	4,303.9	3,716.4	3,497.9	23.1	22.4	-148.38	132.0	-1,010.2	2,060.2	2,033.0	27.27	75.547			
4,600.0	4,399.5	3,795.2	3,568.6	23.5	23.2	-149.43	137.6	-1,044.4	2,121.7	2,093.4	28.28	75.017			

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Valley Farms G - Valley Farms G 22C-14-06-92 - Wellbore #1 - Design #1													Offset Site Error: 0.0 usft	
Survey Program: 0-MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	3,876.4	3,641.6	23.9	23.9	-150.27	143.3	-1,079.6	2,179.5	2,150.3	29.25	74.519		
4,800.0	4,594.8	3,959.9	3,716.6	24.3	24.7	-150.92	149.2	-1,115.9	2,233.6	2,203.5	30.15	74.078		
4,900.0	4,693.8	4,045.5	3,793.5	24.5	25.5	-151.41	155.3	-1,153.0	2,283.9	2,252.9	30.98	73.710		
5,000.0	4,793.4	4,132.9	3,871.9	24.7	26.4	-151.74	161.4	-1,190.9	2,330.2	2,298.5	31.74	73.426		
5,100.0	4,893.4	4,221.8	3,951.8	24.9	27.2	-151.95	167.7	-1,229.5	2,372.5	2,340.1	32.40	73.234		
5,113.6	4,907.0	4,234.0	3,962.8	24.9	27.3	-108.68	168.6	-1,234.8	2,378.0	2,345.5	32.48	73.215		
5,200.0	4,993.4	4,311.6	4,032.5	24.9	28.1	-108.26	174.0	-1,268.5	2,412.3	2,379.3	32.96	73.181		
5,300.0	5,093.4	4,401.4	4,113.1	25.0	28.9	-107.80	180.4	-1,307.5	2,452.2	2,418.7	33.53	73.142		
5,400.0	5,193.4	5,521.5	5,193.4	25.1	33.6	-105.28	218.6	-1,542.6	2,462.3	2,425.8	36.48	67.489		
5,500.0	5,293.4	5,621.5	5,293.4	25.2	33.6	-105.28	218.6	-1,542.6	2,462.3	2,425.5	36.74	67.022		
5,600.0	5,393.4	5,721.5	5,393.4	25.3	33.7	-105.28	218.6	-1,542.6	2,462.3	2,425.3	37.00	66.555		
5,700.0	5,493.4	5,821.5	5,493.4	25.4	33.8	-105.28	218.6	-1,542.6	2,462.3	2,425.0	37.26	66.088		
5,800.0	5,593.4	5,921.5	5,593.4	25.5	33.9	-105.28	218.6	-1,542.6	2,462.3	2,424.8	37.52	65.622		
5,900.0	5,693.4	6,021.5	5,693.4	25.6	34.0	-105.28	218.6	-1,542.6	2,462.3	2,424.5	37.79	65.156		
6,000.0	5,793.4	6,121.5	5,793.4	25.7	34.0	-105.28	218.6	-1,542.6	2,462.3	2,424.2	38.06	64.690		
6,100.0	5,893.4	6,221.5	5,893.4	25.8	34.1	-105.28	218.6	-1,542.6	2,462.3	2,423.9	38.34	64.226		
6,200.0	5,993.4	6,321.5	5,993.4	26.0	34.2	-105.28	218.6	-1,542.6	2,462.3	2,423.7	38.62	63.763		
6,300.0	6,093.4	6,421.5	6,093.4	26.1	34.3	-105.28	218.6	-1,542.6	2,462.3	2,423.4	38.90	63.301		
6,400.0	6,193.4	6,521.5	6,193.4	26.2	34.4	-105.28	218.6	-1,542.6	2,462.3	2,423.1	39.18	62.841		
6,500.0	6,293.4	6,621.5	6,293.4	26.3	34.5	-105.28	218.6	-1,542.6	2,462.3	2,422.8	39.47	62.383		
6,600.0	6,393.4	6,721.5	6,393.4	26.4	34.6	-105.28	218.6	-1,542.6	2,462.3	2,422.5	39.76	61.926		
6,700.0	6,493.4	6,821.5	6,493.4	26.5	34.6	-105.28	218.6	-1,542.6	2,462.3	2,422.2	40.06	61.472		
6,800.0	6,593.4	6,921.5	6,593.4	26.6	34.7	-105.28	218.6	-1,542.6	2,462.3	2,421.9	40.35	61.020		
6,900.0	6,693.4	7,021.5	6,693.4	26.7	34.8	-105.28	218.6	-1,542.6	2,462.3	2,421.6	40.65	60.571		
7,000.0	6,793.4	7,121.5	6,793.4	26.9	34.9	-105.28	218.6	-1,542.6	2,462.3	2,421.3	40.95	60.124		
7,100.0	6,893.4	7,221.5	6,893.4	27.0	35.0	-105.28	218.6	-1,542.6	2,462.3	2,421.0	41.26	59.680		
7,200.0	6,993.4	7,321.5	6,993.4	27.1	35.1	-105.28	218.6	-1,542.6	2,462.3	2,420.7	41.57	59.238		
7,300.0	7,093.4	7,421.5	7,093.4	27.2	35.2	-105.28	218.6	-1,542.6	2,462.3	2,420.4	41.88	58.800		
7,400.0	7,193.4	7,521.5	7,193.4	27.4	35.3	-105.28	218.6	-1,542.6	2,462.3	2,420.1	42.19	58.364		
7,500.0	7,293.4	7,621.5	7,293.4	27.5	35.4	-105.28	218.6	-1,542.6	2,462.3	2,419.8	42.50	57.932		
7,598.6	7,392.0	7,720.1	7,392.0	27.6	35.5	-105.28	218.6	-1,542.6	2,462.3	2,419.5	42.82	57.508		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 22D-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
0.0	0.0	0.0	0.0	0.0	0.0	-157.52	-54.9	-22.7	59.4								
100.0	100.0	100.0	100.0	0.1	0.1	-157.52	-54.9	-22.7	59.4	59.2	0.19	318.448					
200.0	200.0	200.0	200.0	0.3	0.3	-157.52	-54.9	-22.7	59.4	58.8	0.64	93.396					
300.0	300.0	300.0	300.0	0.5	0.5	-157.52	-54.9	-22.7	59.4	58.3	1.09	54.723					
400.0	400.0	400.0	400.0	0.8	0.8	-157.52	-54.9	-22.7	59.4	57.9	1.54	38.699					
500.0	500.0	500.0	500.0	1.0	1.0	-157.52	-54.9	-22.7	59.4	57.4	1.98	29.933					
600.0	600.0	600.0	600.0	1.2	1.2	-157.52	-54.9	-22.7	59.4	57.0	2.43	24.406					
700.0	700.0	700.0	700.0	1.4	1.4	-157.52	-54.9	-22.7	59.4	56.5	2.88	20.601					
800.0	800.0	800.0	800.0	1.7	1.7	-157.52	-54.9	-22.7	59.4	56.1	3.33	17.823					
900.0	900.0	900.0	900.0	1.9	1.9	-157.52	-54.9	-22.7	59.4	55.6	3.78	15.705					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-157.52	-54.9	-22.7	59.4	55.2	4.23	14.037					
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-157.52	-54.9	-22.7	59.4	54.8	4.57	13.001	CC, ES				
1,100.0	1,100.0	1,099.4	1,099.4	2.3	2.3	122.64	-55.0	-22.8	59.6	55.0	4.67	12.766					
1,175.0	1,174.9	1,172.6	1,172.5	2.5	2.5	124.89	-56.5	-23.6	63.0	58.1	4.95	12.719	SF				
1,200.0	1,199.9	1,196.9	1,196.9	2.5	2.5	134.30	-57.4	-24.2	65.1	60.1	5.06	12.887					
1,300.0	1,299.4	1,293.6	1,293.3	2.8	2.7	156.72	-60.8	-29.8	79.5	74.1	5.48	14.524					
1,400.0	1,398.1	1,387.0	1,386.0	3.0	2.9	169.89	-63.8	-40.7	104.0	98.1	5.89	17.658					
1,500.0	1,495.8	1,475.7	1,473.4	3.3	3.2	178.83	-66.4	-55.9	138.7	132.4	6.29	22.069					
1,600.0	1,591.9	1,558.9	1,554.4	3.7	3.4	-174.90	-68.6	-74.3	183.2	176.5	6.67	27.478					
1,693.3	1,680.0	1,630.7	1,623.6	4.1	3.7	-170.57	-70.2	-93.6	232.6	225.6	7.01	33.193					
1,700.0	1,686.3	1,635.7	1,628.3	4.2	3.7	-170.42	-70.3	-95.1	236.4	229.4	7.04	33.595					
1,800.0	1,779.8	1,707.3	1,696.4	4.7	4.1	-168.35	-71.8	-117.5	295.0	287.5	7.49	39.378					
1,900.0	1,873.2	1,775.0	1,759.7	5.3	4.4	-166.60	-73.0	-141.4	356.5	348.5	7.97	44.734					
2,000.0	1,966.7	1,839.0	1,818.6	5.9	4.8	-165.10	-74.0	-166.3	420.6	412.2	8.46	49.711					
2,100.0	2,060.2	1,901.0	1,874.7	6.5	5.3	-163.76	-74.7	-192.7	487.3	478.3	8.98	54.243					
2,200.0	2,153.6	1,974.0	1,940.4	7.2	5.8	-162.45	-75.6	-224.7	555.0	545.5	9.54	58.167					
2,300.0	2,247.1	2,047.1	2,006.0	7.8	6.4	-161.42	-76.5	-256.6	622.9	612.8	10.11	61.620					
2,400.0	2,340.6	2,120.1	2,071.7	8.5	7.0	-160.59	-77.3	-288.6	690.8	680.1	10.69	64.622					
2,500.0	2,434.0	2,193.2	2,137.4	9.2	7.6	-159.91	-78.2	-320.6	758.8	747.5	11.29	67.229					
2,600.0	2,527.5	2,266.2	2,203.1	9.9	8.3	-159.34	-79.1	-352.5	826.8	814.9	11.90	69.499					
2,700.0	2,620.9	2,339.3	2,268.8	10.5	8.9	-158.85	-79.9	-384.5	894.9	882.4	12.52	71.502					
2,800.0	2,714.4	2,412.4	2,334.4	11.2	9.6	-158.44	-80.8	-416.5	963.0	949.9	13.14	73.275					
2,900.0	2,807.9	2,485.4	2,400.1	11.9	10.2	-158.08	-81.7	-448.5	1,031.1	1,017.4	13.78	74.844					
3,000.0	2,901.3	2,558.5	2,465.8	12.6	10.9	-157.76	-82.5	-480.4	1,099.3	1,084.9	14.42	76.240					
3,100.0	2,994.8	2,631.5	2,531.5	13.3	11.6	-157.48	-83.4	-512.4	1,167.5	1,152.4	15.07	77.492					
3,200.0	3,088.3	2,704.6	2,597.2	14.0	12.2	-157.23	-84.3	-544.4	1,235.6	1,219.9	15.72	78.619					
3,300.0	3,181.7	2,777.6	2,662.9	14.7	12.9	-157.01	-85.1	-576.3	1,303.8	1,287.5	16.37	79.631					
3,400.0	3,275.2	2,850.7	2,728.5	15.4	13.6	-156.81	-86.0	-608.3	1,372.0	1,355.0	17.03	80.548					
3,500.0	3,368.7	2,923.7	2,794.2	16.1	14.3	-156.62	-86.9	-640.3	1,440.2	1,422.5	17.70	81.382					
3,600.0	3,462.1	2,996.8	2,859.9	16.8	14.9	-156.46	-87.7	-672.2	1,508.4	1,490.1	18.36	82.143					
3,700.0	3,555.6	3,069.9	2,925.6	17.5	15.6	-156.31	-88.6	-704.2	1,576.7	1,557.6	19.03	82.836					
3,800.0	3,649.0	3,142.9	2,991.3	18.2	16.3	-156.17	-89.5	-736.2	1,644.9	1,625.2	19.71	83.473					
3,900.0	3,742.5	3,216.0	3,057.0	18.9	17.0	-156.04	-90.3	-768.2	1,713.1	1,692.7	20.38	84.058					
4,000.0	3,836.0	3,289.0	3,122.6	19.6	17.7	-155.92	-91.2	-800.1	1,781.4	1,760.3	21.06	84.598					
4,100.0	3,929.4	3,362.1	3,188.3	20.3	18.4	-155.81	-92.1	-832.1	1,849.6	1,827.9	21.74	85.095					
4,200.0	4,022.9	3,435.1	3,254.0	21.0	19.0	-155.71	-92.9	-864.1	1,917.8	1,895.4	22.42	85.557					
4,300.0	4,116.4	3,508.2	3,319.7	21.7	19.7	-155.62	-93.8	-896.0	1,986.1	1,963.0	23.10	85.986					
4,400.0	4,209.8	3,581.2	3,385.4	22.4	20.4	-155.53	-94.6	-928.0	2,054.3	2,030.6	23.78	86.383					
4,419.3	4,227.9	3,595.3	3,398.0	22.6	20.6	-155.51	-94.8	-934.2	2,067.5	2,043.6	23.91	86.457					
4,500.0	4,303.9	3,655.3	3,452.0	23.1	21.1	-156.31	-95.5	-960.4	2,121.4	2,096.7	24.71	85.864					
4,600.0	4,399.5	3,732.3	3,521.2	23.5	21.8	-157.11	-96.4	-994.1	2,185.0	2,159.3	25.63	85.237					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 22D-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	3,812.2	3,593.0	23.9	22.6	-157.74	-97.4	-1,029.1	2,244.7	2,218.2	26.52	84.653		
4,800.0	4,594.8	3,894.6	3,667.1	24.3	23.4	-158.22	-98.4	-1,065.1	2,300.6	2,273.2	27.34	84.136		
4,900.0	4,693.8	3,979.4	3,743.4	24.5	24.2	-158.57	-99.4	-1,102.3	2,352.4	2,324.3	28.11	83.699		
5,000.0	4,793.4	4,066.3	3,821.5	24.7	25.0	-158.81	-100.4	-1,140.3	2,400.0	2,371.2	28.79	83.353		
5,100.0	4,893.4	4,155.2	3,901.4	24.9	25.8	-158.94	-101.4	-1,179.2	2,443.4	2,414.0	29.40	83.105		
5,113.6	4,907.0	4,167.4	3,912.4	24.9	26.0	-115.66	-101.6	-1,184.5	2,449.0	2,419.5	29.48	83.079		
5,200.0	4,993.4	4,245.1	3,982.2	24.9	26.7	-115.31	-102.5	-1,218.5	2,484.1	2,454.1	29.94	82.957		
5,300.0	5,093.4	4,335.0	4,063.0	25.0	27.5	-114.91	-103.6	-1,257.9	2,524.8	2,494.3	30.49	82.809		
5,400.0	5,193.4	5,510.1	5,193.4	25.1	32.6	-112.59	-110.6	-1,517.6	2,545.7	2,512.1	33.63	75.703		
5,500.0	5,293.4	5,610.1	5,293.4	25.2	32.7	-112.59	-110.6	-1,517.6	2,545.7	2,511.8	33.90	75.090		
5,600.0	5,393.4	5,710.1	5,393.4	25.3	32.7	-112.59	-110.6	-1,517.6	2,545.7	2,511.5	34.18	74.479		
5,700.0	5,493.4	5,810.1	5,493.4	25.4	32.8	-112.59	-110.6	-1,517.6	2,545.7	2,511.2	34.46	73.870		
5,800.0	5,593.4	5,910.1	5,593.4	25.5	32.9	-112.59	-110.6	-1,517.6	2,545.7	2,510.9	34.75	73.263		
5,900.0	5,693.4	6,010.1	5,693.4	25.6	33.0	-112.59	-110.6	-1,517.6	2,545.7	2,510.6	35.04	72.659		
6,000.0	5,793.4	6,110.1	5,793.4	25.7	33.1	-112.59	-110.6	-1,517.6	2,545.7	2,510.4	35.33	72.059		
6,100.0	5,893.4	6,210.1	5,893.4	25.8	33.1	-112.59	-110.6	-1,517.6	2,545.7	2,510.1	35.62	71.461		
6,200.0	5,993.4	6,310.1	5,993.4	26.0	33.2	-112.59	-110.6	-1,517.6	2,545.7	2,509.8	35.92	70.867		
6,300.0	6,093.4	6,410.1	6,093.4	26.1	33.3	-112.59	-110.6	-1,517.6	2,545.7	2,509.5	36.22	70.277		
6,400.0	6,193.4	6,510.1	6,193.4	26.2	33.4	-112.59	-110.6	-1,517.6	2,545.7	2,509.2	36.53	69.691		
6,500.0	6,293.4	6,610.1	6,293.4	26.3	33.5	-112.59	-110.6	-1,517.6	2,545.7	2,508.8	36.84	69.109		
6,600.0	6,393.4	6,710.1	6,393.4	26.4	33.6	-112.59	-110.6	-1,517.6	2,545.7	2,508.5	37.15	68.531		
6,700.0	6,493.4	6,810.1	6,493.4	26.5	33.7	-112.59	-110.6	-1,517.6	2,545.7	2,508.2	37.46	67.958		
6,800.0	6,593.4	6,910.1	6,593.4	26.6	33.8	-112.59	-110.6	-1,517.6	2,545.7	2,507.9	37.78	67.389		
6,900.0	6,693.4	7,010.1	6,693.4	26.7	33.9	-112.59	-110.6	-1,517.6	2,545.7	2,507.6	38.09	66.825		
7,000.0	6,793.4	7,110.1	6,793.4	26.9	34.0	-112.59	-110.6	-1,517.6	2,545.7	2,507.3	38.42	66.266		
7,100.0	6,893.4	7,210.1	6,893.4	27.0	34.1	-112.59	-110.6	-1,517.6	2,545.7	2,506.9	38.74	65.712		
7,200.0	6,993.4	7,310.1	6,993.4	27.1	34.2	-112.59	-110.6	-1,517.6	2,545.7	2,506.6	39.07	65.163		
7,300.0	7,093.4	7,410.1	7,093.4	27.2	34.3	-112.59	-110.6	-1,517.6	2,545.7	2,506.3	39.39	64.620		
7,400.0	7,193.4	7,510.1	7,193.4	27.4	34.4	-112.59	-110.6	-1,517.6	2,545.7	2,506.0	39.73	64.081		
7,500.0	7,293.4	7,610.1	7,293.4	27.5	34.5	-112.59	-110.6	-1,517.6	2,545.7	2,505.6	40.06	63.548		
7,598.6	7,392.0	7,708.7	7,392.0	27.6	34.6	-112.59	-110.6	-1,517.6	2,545.7	2,505.3	40.39	63.027		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 23A-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-163.07	-74.9	-22.8	78.3					
100.0	100.0	100.0	100.0	0.1	0.1	-163.07	-74.9	-22.8	78.3	78.1	0.19	419.614		
200.0	200.0	200.0	200.0	0.3	0.3	-163.07	-74.9	-22.8	78.3	77.6	0.64	123.067		
300.0	300.0	300.0	300.0	0.5	0.5	-163.07	-74.9	-22.8	78.3	77.2	1.09	72.108		
400.0	400.0	400.0	400.0	0.8	0.8	-163.07	-74.9	-22.8	78.3	76.7	1.54	50.993		
500.0	500.0	500.0	500.0	1.0	1.0	-163.07	-74.9	-22.8	78.3	76.3	1.98	39.443		
600.0	600.0	600.0	600.0	1.2	1.2	-163.07	-74.9	-22.8	78.3	75.8	2.43	32.159		
700.0	700.0	700.0	700.0	1.4	1.4	-163.07	-74.9	-22.8	78.3	75.4	2.88	27.146		
800.0	800.0	800.0	800.0	1.7	1.7	-163.07	-74.9	-22.8	78.3	74.9	3.33	23.485		
900.0	900.0	900.0	900.0	1.9	1.9	-163.07	-74.9	-22.8	78.3	74.5	3.78	20.694		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-163.07	-74.9	-22.8	78.3	74.0	4.23	18.496		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-163.07	-74.9	-22.8	78.3	73.7	4.57	17.131 CC, ES		
1,100.0	1,100.0	1,099.4	1,099.4	2.3	2.3	117.16	-74.9	-23.0	78.5	73.8	4.67	16.791		
1,175.0	1,174.9	1,172.2	1,172.1	2.5	2.5	120.43	-75.6	-25.6	81.4	76.4	4.97	16.378 SF		
1,200.0	1,199.9	1,196.3	1,196.1	2.5	2.5	130.42	-76.0	-27.1	83.4	78.3	5.07	16.439		
1,300.0	1,299.4	1,290.8	1,290.1	2.8	2.7	154.26	-78.5	-36.5	98.3	92.8	5.49	17.888		
1,400.0	1,398.1	1,381.3	1,379.5	3.0	3.0	167.72	-82.2	-50.4	125.1	119.1	5.92	21.134		
1,500.0	1,495.8	1,466.4	1,462.7	3.3	3.2	176.43	-86.8	-67.8	163.2	156.9	6.32	25.828		
1,600.0	1,591.9	1,545.3	1,538.8	3.7	3.5	-177.69	-92.0	-87.7	211.7	205.0	6.70	31.608		
1,693.3	1,680.0	1,612.5	1,602.9	4.1	3.8	-173.75	-97.2	-107.3	265.0	258.0	7.02	37.740		
1,700.0	1,686.3	1,617.1	1,607.2	4.2	3.8	-173.62	-97.6	-108.8	269.1	262.1	7.05	38.167		
1,800.0	1,779.8	1,683.4	1,669.5	4.7	4.2	-171.92	-103.4	-130.9	332.0	324.5	7.48	44.358		
1,900.0	1,873.2	1,745.6	1,727.0	5.3	4.5	-170.59	-109.5	-153.7	397.8	389.9	7.93	50.174		
2,000.0	1,966.7	1,803.9	1,780.0	5.9	4.9	-169.49	-115.6	-177.1	466.2	457.8	8.38	55.661		
2,100.0	2,060.2	1,867.6	1,837.2	6.5	5.4	-168.46	-122.8	-204.3	536.7	527.9	8.85	60.641		
2,200.0	2,153.6	1,937.9	1,900.2	7.2	6.0	-167.55	-130.8	-234.5	607.5	598.2	9.35	64.946		
2,300.0	2,247.1	2,008.2	1,963.2	7.8	6.6	-166.84	-138.8	-264.7	678.4	668.6	9.85	68.877		
2,400.0	2,340.6	2,078.5	2,026.2	8.5	7.2	-166.26	-146.7	-295.0	749.3	739.0	10.37	72.288		
2,500.0	2,434.0	2,148.9	2,089.2	9.2	7.8	-165.78	-154.7	-325.2	820.3	809.4	10.89	75.330		
2,600.0	2,527.5	2,219.2	2,152.2	9.9	8.4	-165.38	-162.7	-355.4	891.3	879.8	11.42	78.041		
2,700.0	2,620.9	2,289.5	2,215.1	10.5	9.1	-165.03	-170.7	-385.6	962.3	950.3	11.96	80.454		
2,800.0	2,714.4	2,359.8	2,278.1	11.2	9.7	-164.73	-178.6	-415.8	1,033.3	1,020.8	12.51	82.604		
2,900.0	2,807.9	2,430.1	2,341.1	11.9	10.3	-164.48	-186.6	-446.0	1,104.3	1,091.2	13.06	84.545		
3,000.0	2,901.3	2,500.4	2,404.1	12.6	11.0	-164.25	-194.6	-476.2	1,175.3	1,161.7	13.62	86.299		
3,100.0	2,994.8	2,570.8	2,467.1	13.3	11.6	-164.05	-202.6	-506.4	1,246.4	1,232.2	14.18	87.873		
3,200.0	3,088.3	2,641.1	2,530.1	14.0	12.3	-163.87	-210.5	-536.7	1,317.4	1,302.7	14.75	89.308		
3,300.0	3,181.7	2,711.4	2,593.1	14.7	12.9	-163.70	-218.5	-566.9	1,388.5	1,373.1	15.32	90.618		
3,400.0	3,275.2	2,781.7	2,656.1	15.4	13.6	-163.56	-226.5	-597.1	1,459.5	1,443.6	15.90	91.810		
3,500.0	3,368.7	2,852.0	2,719.1	16.1	14.3	-163.42	-234.5	-627.3	1,530.6	1,514.1	16.48	92.901		
3,600.0	3,462.1	2,922.3	2,782.1	16.8	14.9	-163.30	-242.4	-657.5	1,601.6	1,584.6	17.06	93.906		
3,700.0	3,555.6	2,992.6	2,845.1	17.5	15.6	-163.19	-250.4	-687.7	1,672.7	1,655.1	17.64	94.831		
3,800.0	3,649.0	3,063.0	2,908.0	18.2	16.2	-163.09	-258.4	-717.9	1,743.8	1,725.6	18.22	95.681		
3,900.0	3,742.5	3,133.3	2,971.0	18.9	16.9	-163.00	-266.4	-748.1	1,814.9	1,796.0	18.81	96.470		
4,000.0	3,836.0	3,203.6	3,034.0	19.6	17.6	-162.91	-274.3	-778.4	1,885.9	1,866.5	19.40	97.203		
4,100.0	3,929.4	3,273.9	3,097.0	20.3	18.2	-162.83	-282.3	-808.6	1,957.0	1,937.0	19.99	97.881		
4,200.0	4,022.9	3,344.2	3,160.0	21.0	18.9	-162.76	-290.3	-838.8	2,028.1	2,007.5	20.59	98.514		
4,300.0	4,116.4	3,414.5	3,223.0	21.7	19.6	-162.69	-298.3	-869.0	2,099.2	2,078.0	21.18	99.104		
4,400.0	4,209.8	3,484.9	3,286.0	22.4	20.2	-162.62	-306.3	-899.2	2,170.3	2,148.5	21.78	99.656		
4,419.3	4,227.9	3,498.4	3,298.1	22.6	20.4	-162.61	-307.8	-905.0	2,184.0	2,162.1	21.89	99.758		
4,500.0	4,303.9	3,556.3	3,350.0	23.1	20.9	-163.23	-314.4	-929.9	2,240.2	2,217.6	22.62	99.034		
4,600.0	4,399.5	3,631.0	3,416.9	23.5	21.6	-163.86	-322.8	-962.0	2,306.5	2,283.0	23.47	98.278		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 23A-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,700.0	4,496.6	3,708.9	3,486.7	23.9	22.4	-164.36	-331.7	-995.5	2,369.0	2,344.7	24.27	97.592			
4,800.0	4,594.8	3,789.7	3,559.1	24.3	23.1	-164.74	-340.8	-1,030.2	2,427.5	2,402.5	25.03	96.993			
4,900.0	4,693.8	3,873.3	3,633.9	24.5	23.9	-165.02	-350.3	-1,066.1	2,481.8	2,456.1	25.72	96.489			
5,000.0	4,793.4	3,959.3	3,711.0	24.7	24.8	-165.21	-360.1	-1,103.1	2,531.9	2,505.6	26.35	96.089			
5,100.0	4,893.4	4,047.5	3,790.1	24.9	25.6	-165.33	-370.1	-1,141.0	2,577.6	2,550.7	26.91	95.794			
5,113.6	4,907.0	4,059.7	3,801.0	24.9	25.7	-122.05	-371.5	-1,146.2	2,583.4	2,556.5	26.98	95.762			
5,200.0	4,993.4	4,137.1	3,870.3	24.9	26.4	-121.80	-380.2	-1,179.5	2,620.4	2,593.0	27.41	95.601			
5,300.0	5,093.4	4,226.7	3,950.6	25.0	27.3	-121.52	-390.4	-1,218.0	2,663.3	2,635.4	27.92	95.390			
5,400.0	5,193.4	4,316.3	4,030.8	25.1	28.2	-121.25	-400.6	-1,256.4	2,706.3	2,677.8	28.43	95.191			
5,500.0	5,293.4	4,407.4	4,110.9	25.2	29.1	-119.60	-410.8	-1,294.7	2,748.7	2,719.0	28.94	94.992			
5,600.0	5,393.4	4,497.4	4,191.0	25.3	30.0	-119.60	-420.8	-1,333.0	2,791.1	2,761.0	29.45	94.793			
5,700.0	5,493.4	4,587.4	4,271.0	25.4	30.9	-119.60	-430.8	-1,371.3	2,833.5	2,803.0	29.96	94.594			
5,800.0	5,593.4	4,677.4	4,351.0	25.5	31.8	-119.60	-440.8	-1,409.6	2,875.9	2,845.0	30.47	94.395			
5,900.0	5,693.4	4,767.4	4,431.0	25.6	32.7	-119.60	-450.8	-1,447.9	2,918.3	2,887.0	30.98	94.196			
6,000.0	5,793.4	4,857.4	4,511.0	25.7	33.6	-119.60	-460.8	-1,486.2	2,960.7	2,929.0	31.49	93.997			
6,100.0	5,893.4	4,947.4	4,591.0	25.8	34.5	-119.60	-470.8	-1,524.5	3,003.1	2,971.0	32.00	93.798			
6,200.0	5,993.4	5,037.4	4,671.0	26.0	35.4	-119.60	-480.8	-1,562.8	3,045.5	2,993.0	32.51	93.599			
6,300.0	6,093.4	5,127.4	4,751.0	26.1	36.3	-119.60	-490.8	-1,601.1	3,087.9	3,015.0	33.02	93.400			
6,400.0	6,193.4	5,217.4	4,831.0	26.2	37.2	-119.60	-500.8	-1,639.4	3,130.3	3,037.0	33.53	93.201			
6,500.0	6,293.4	5,307.4	4,911.0	26.3	38.1	-119.60	-510.8	-1,677.7	3,172.7	3,059.0	34.04	93.002			
6,600.0	6,393.4	5,397.4	4,991.0	26.4	39.0	-119.60	-520.8	-1,716.0	3,215.1	3,081.0	34.55	92.803			
6,700.0	6,493.4	5,487.4	5,071.0	26.5	39.9	-119.60	-530.8	-1,754.3	3,257.5	3,103.0	35.06	92.604			
6,800.0	6,593.4	5,577.4	5,151.0	26.6	40.8	-119.60	-540.8	-1,792.6	3,300.0	3,125.0	35.57	92.405			
6,900.0	6,693.4	5,667.4	5,231.0	26.7	41.7	-119.60	-550.8	-1,830.9	3,342.4	3,147.0	36.08	92.206			
7,000.0	6,793.4	5,757.4	5,311.0	26.9	42.6	-119.60	-560.8	-1,869.2	3,384.8	3,169.0	36.59	92.007			
7,100.0	6,893.4	5,847.4	5,391.0	27.0	43.5	-119.60	-570.8	-1,907.5	3,427.2	3,191.0	37.10	91.808			
7,200.0	6,993.4	5,937.4	5,471.0	27.1	44.4	-119.60	-580.8	-1,945.8	3,469.6	3,213.0	37.61	91.609			
7,300.0	7,093.4	6,027.4	5,551.0	27.2	45.3	-119.60	-590.8	-1,984.1	3,512.0	3,235.0	38.12	91.410			
7,400.0	7,193.4	6,117.4	5,631.0	27.4	46.2	-119.60	-600.8	-2,022.4	3,554.4	3,257.0	38.63	91.211			
7,500.0	7,293.4	6,207.4	5,711.0	27.5	47.1	-119.60	-610.8	-2,060.7	3,596.8	3,279.0	39.14	91.012			
7,598.6	7,392.0	7,226.1	7,392.0	27.6	48.0	-119.60	-620.8	-2,099.0	3,639.2	3,301.0	39.65	90.813			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 23B-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-166.45	-94.9	-22.9	97.6					
100.0	100.0	100.0	100.0	0.1	0.1	-166.45	-94.9	-22.9	97.6	97.4	0.19	523.178		
200.0	200.0	200.0	200.0	0.3	0.3	-166.45	-94.9	-22.9	97.6	97.0	0.64	153.441		
300.0	300.0	300.0	300.0	0.5	0.5	-166.45	-94.9	-22.9	97.6	96.5	1.09	89.904		
400.0	400.0	400.0	400.0	0.8	0.8	-166.45	-94.9	-22.9	97.6	96.1	1.54	63.578		
500.0	500.0	500.0	500.0	1.0	1.0	-166.45	-94.9	-22.9	97.6	95.6	1.98	49.178		
600.0	600.0	600.0	600.0	1.2	1.2	-166.45	-94.9	-22.9	97.6	95.2	2.43	40.096		
700.0	700.0	700.0	700.0	1.4	1.4	-166.45	-94.9	-22.9	97.6	94.7	2.88	33.846		
800.0	800.0	800.0	800.0	1.7	1.7	-166.45	-94.9	-22.9	97.6	94.3	3.33	29.281		
900.0	900.0	900.0	900.0	1.9	1.9	-166.45	-94.9	-22.9	97.6	93.8	3.78	25.801		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-166.45	-94.9	-22.9	97.6	93.4	4.23	23.061		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-166.45	-94.9	-22.9	97.6	93.0	4.57	21.359 CC		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	113.65	-94.9	-22.9	97.7	93.0	4.68	20.876 ES		
1,175.0	1,174.9	1,172.5	1,172.4	2.5	2.5	115.66	-95.5	-24.1	99.8	94.8	4.98	20.030		
1,200.0	1,199.9	1,196.5	1,196.4	2.5	2.5	125.08	-95.9	-25.1	101.4	96.3	5.09	19.935 SF		
1,300.0	1,299.4	1,291.1	1,290.8	2.8	2.7	146.79	-99.0	-31.5	114.2	108.7	5.50	20.766		
1,400.0	1,398.1	1,382.5	1,381.4	3.0	2.9	158.99	-103.8	-41.7	137.9	131.9	5.91	23.322		
1,500.0	1,495.8	1,469.2	1,466.9	3.3	3.2	167.26	-110.1	-55.0	172.4	166.1	6.31	27.334		
1,600.0	1,591.9	1,550.4	1,546.2	3.7	3.4	173.07	-117.5	-70.6	217.1	210.4	6.68	32.508		
1,693.3	1,680.0	1,620.3	1,613.9	4.1	3.6	177.01	-125.0	-86.5	267.1	260.1	7.00	38.171		
1,700.0	1,686.3	1,625.2	1,618.6	4.2	3.7	177.17	-125.6	-87.7	270.9	263.9	7.03	38.568		
1,800.0	1,779.8	1,700.0	1,690.2	4.7	4.0	179.35	-134.9	-107.4	330.3	322.9	7.45	44.324		
1,900.0	1,873.2	1,760.9	1,747.8	5.3	4.3	-179.20	-143.3	-125.2	392.5	384.6	7.87	49.879		
2,000.0	1,966.7	1,823.4	1,806.3	5.9	4.6	-177.95	-152.8	-145.2	457.3	449.0	8.29	55.132		
2,100.0	2,060.2	1,882.6	1,860.8	6.5	5.0	-176.92	-162.5	-165.8	524.5	515.8	8.72	60.121		
2,200.0	2,153.6	1,938.4	1,911.8	7.2	5.4	-176.06	-172.4	-186.6	594.0	584.8	9.16	64.859		
2,300.0	2,247.1	2,000.0	1,967.1	7.8	5.9	-175.22	-184.0	-211.0	665.5	655.9	9.61	69.250		
2,400.0	2,340.6	2,041.2	2,003.6	8.5	6.2	-174.70	-192.2	-228.3	738.8	728.8	10.03	73.671		
2,500.0	2,434.0	2,092.5	2,048.4	9.2	6.7	-174.10	-202.8	-250.7	813.8	803.3	10.47	77.707		
2,600.0	2,527.5	2,157.7	2,105.3	9.9	7.3	-173.45	-216.5	-279.6	889.3	878.4	10.95	81.217		
2,700.0	2,620.9	2,222.9	2,162.1	10.5	7.9	-172.90	-230.2	-308.5	964.9	953.5	11.42	84.485		
2,800.0	2,714.4	2,288.2	2,219.0	11.2	8.5	-172.42	-243.8	-337.4	1,040.5	1,028.6	11.90	87.433		
2,900.0	2,807.9	2,353.4	2,275.8	11.9	9.1	-172.01	-257.5	-366.3	1,116.1	1,103.7	12.39	90.090		
3,000.0	2,901.3	2,418.6	2,332.7	12.6	9.8	-171.66	-271.2	-395.2	1,191.8	1,178.9	12.88	92.532		
3,100.0	2,994.8	2,483.8	2,389.5	13.3	10.4	-171.34	-284.9	-424.1	1,267.5	1,254.1	13.38	94.751		
3,200.0	3,088.3	2,549.0	2,446.4	14.0	11.1	-171.06	-298.6	-453.0	1,343.1	1,329.3	13.88	96.776		
3,300.0	3,181.7	2,614.3	2,503.2	14.7	11.7	-170.81	-312.3	-481.9	1,418.8	1,404.5	14.38	98.647		
3,400.0	3,275.2	2,679.5	2,560.0	15.4	12.4	-170.59	-326.0	-510.8	1,494.6	1,479.7	14.89	100.357		
3,500.0	3,368.7	2,744.7	2,616.9	16.1	13.0	-170.38	-339.6	-539.7	1,570.3	1,554.9	15.41	101.932		
3,600.0	3,462.1	2,809.9	2,673.7	16.8	13.7	-170.20	-353.3	-568.6	1,646.0	1,630.1	15.92	103.396		
3,700.0	3,555.6	2,875.2	2,730.6	17.5	14.4	-170.03	-367.0	-597.5	1,721.7	1,705.3	16.44	104.742		
3,800.0	3,649.0	2,940.4	2,787.4	18.2	15.0	-169.88	-380.7	-626.4	1,797.5	1,780.5	16.96	105.992		
3,900.0	3,742.5	3,005.6	2,844.3	18.9	15.7	-169.73	-394.4	-655.3	1,873.2	1,855.7	17.48	107.160		
4,000.0	3,836.0	3,070.8	2,901.1	19.6	16.4	-169.60	-408.1	-684.2	1,949.0	1,931.0	18.01	108.239		
4,100.0	3,929.4	3,136.0	2,958.0	20.3	17.1	-169.48	-421.8	-713.1	2,024.7	2,006.2	18.53	109.249		
4,200.0	4,022.9	3,201.3	3,014.8	21.0	17.7	-169.37	-435.5	-742.0	2,100.5	2,081.4	19.06	110.196		
4,300.0	4,116.4	3,266.5	3,071.6	21.7	18.4	-169.27	-449.1	-770.9	2,176.2	2,156.6	19.59	111.075		
4,400.0	4,209.8	3,331.7	3,128.5	22.4	19.1	-169.17	-462.8	-799.8	2,252.0	2,231.9	20.12	111.903		
4,419.3	4,227.9	3,344.3	3,139.5	22.6	19.2	-169.15	-465.5	-805.4	2,266.6	2,246.4	20.23	112.056		
4,500.0	4,303.9	3,398.2	3,186.4	23.1	19.8	-169.56	-476.8	-829.3	2,326.7	2,305.8	20.89	111.364		
4,600.0	4,399.5	3,468.3	3,247.5	23.5	20.5	-169.98	-491.5	-860.4	2,397.9	2,376.2	21.67	110.667		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Valley Farms G - Valley Farms G 23B-14-06-92 - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	3,541.9	3,311.7	23.9	21.3	-170.29	-506.9	-893.0	2,465.4	2,443.0	22.40	110.051		
4,800.0	4,594.8	3,618.8	3,378.7	24.3	22.1	-170.54	-523.1	-927.1	2,529.0	2,505.9	23.09	109.521		
4,900.0	4,693.8	3,698.9	3,448.5	24.5	22.9	-170.71	-539.9	-962.5	2,588.5	2,564.8	23.73	109.082		
5,000.0	4,793.4	3,781.8	3,520.7	24.7	23.8	-170.83	-557.3	-999.3	2,643.9	2,619.6	24.32	108.734		
5,100.0	4,893.4	3,867.3	3,595.3	24.9	24.7	-170.90	-575.2	-1,037.2	2,694.9	2,670.0	24.84	108.480		
5,113.6	4,907.0	3,879.2	3,605.6	24.9	24.8	-127.62	-577.7	-1,042.4	2,701.5	2,676.6	24.91	108.453		
5,200.0	4,993.4	3,954.5	3,671.3	24.9	25.6	-127.43	-593.5	-1,075.8	2,743.1	2,717.8	25.33	108.314		
5,300.0	5,093.4	4,041.6	3,747.2	25.0	26.5	-127.22	-611.8	-1,114.4	2,791.3	2,765.5	25.82	108.108		
5,400.0	5,193.4	4,128.8	3,823.2	25.1	27.4	-127.02	-630.1	-1,153.0	2,839.6	2,813.3	26.31	107.909		
5,500.0	5,293.4	5,681.3	5,293.4	25.2	35.2	-125.42	-800.4	-1,512.8	2,878.0	2,847.6	30.40	94.656		
5,600.0	5,393.4	5,781.3	5,393.4	25.3	35.3	-125.42	-800.4	-1,512.8	2,878.0	2,847.3	30.71	93.712		
5,700.0	5,493.4	5,881.3	5,493.4	25.4	35.3	-125.42	-800.4	-1,512.8	2,878.0	2,847.0	31.02	92.777		
5,800.0	5,593.4	5,981.3	5,593.4	25.5	35.4	-125.42	-800.4	-1,512.8	2,878.0	2,846.7	31.33	91.850		
5,900.0	5,693.4	6,081.3	5,693.4	25.6	35.5	-125.42	-800.4	-1,512.8	2,878.0	2,846.3	31.65	90.932		
6,000.0	5,793.4	6,181.3	5,793.4	25.7	35.6	-125.42	-800.4	-1,512.8	2,878.0	2,846.0	31.97	90.023		
6,100.0	5,893.4	6,281.3	5,893.4	25.8	35.6	-125.42	-800.4	-1,512.8	2,878.0	2,845.7	32.29	89.124		
6,200.0	5,993.4	6,381.3	5,993.4	26.0	35.7	-125.42	-800.4	-1,512.8	2,878.0	2,845.4	32.62	88.235		
6,300.0	6,093.4	6,481.3	6,093.4	26.1	35.8	-125.42	-800.4	-1,512.8	2,878.0	2,845.1	32.95	87.355		
6,400.0	6,193.4	6,581.3	6,193.4	26.2	35.9	-125.42	-800.4	-1,512.8	2,878.0	2,844.7	33.28	86.486		
6,500.0	6,293.4	6,681.3	6,293.4	26.3	35.9	-125.42	-800.4	-1,512.8	2,878.0	2,844.4	33.61	85.627		
6,600.0	6,393.4	6,781.3	6,393.4	26.4	36.0	-125.42	-800.4	-1,512.8	2,878.0	2,844.0	33.95	84.778		
6,700.0	6,493.4	6,881.3	6,493.4	26.5	36.1	-125.42	-800.4	-1,512.8	2,878.0	2,843.7	34.29	83.940		
6,800.0	6,593.4	6,981.3	6,593.4	26.6	36.2	-125.42	-800.4	-1,512.8	2,878.0	2,843.4	34.63	83.112		
6,900.0	6,693.4	7,081.3	6,693.4	26.7	36.3	-125.42	-800.4	-1,512.8	2,878.0	2,843.0	34.97	82.295		
7,000.0	6,793.4	7,181.3	6,793.4	26.9	36.4	-125.42	-800.4	-1,512.8	2,878.0	2,842.7	35.32	81.488		
7,100.0	6,893.4	7,281.3	6,893.4	27.0	36.4	-125.42	-800.4	-1,512.8	2,878.0	2,842.3	35.67	80.691		
7,200.0	6,993.4	7,381.3	6,993.4	27.1	36.5	-125.42	-800.4	-1,512.8	2,878.0	2,842.0	36.02	79.906		
7,300.0	7,093.4	7,481.3	7,093.4	27.2	36.6	-125.42	-800.4	-1,512.8	2,878.0	2,841.6	36.37	79.130		
7,400.0	7,193.4	7,581.3	7,193.4	27.4	36.7	-125.42	-800.4	-1,512.8	2,878.0	2,841.3	36.73	78.365		
7,500.0	7,293.4	7,681.3	7,293.4	27.5	36.8	-125.42	-800.4	-1,512.8	2,878.0	2,840.9	37.08	77.611		
7,598.6	7,392.0	7,779.9	7,392.0	27.6	36.9	-125.42	-800.4	-1,512.8	2,878.0	2,840.6	37.44	76.877		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 23C-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-168.70	-114.9	-23.0	117.1					
100.0	100.0	100.0	100.0	0.1	0.1	-168.70	-114.9	-23.0	117.1	117.0	0.19	627.956		
200.0	200.0	200.0	200.0	0.3	0.3	-168.70	-114.9	-23.0	117.1	116.5	0.64	184.171		
300.0	300.0	300.0	300.0	0.5	0.5	-168.70	-114.9	-23.0	117.1	116.1	1.09	107.910		
400.0	400.0	400.0	400.0	0.8	0.8	-168.70	-114.9	-23.0	117.1	115.6	1.54	76.311		
500.0	500.0	500.0	500.0	1.0	1.0	-168.70	-114.9	-23.0	117.1	115.2	1.98	59.027		
600.0	600.0	600.0	600.0	1.2	1.2	-168.70	-114.9	-23.0	117.1	114.7	2.43	48.126		
700.0	700.0	700.0	700.0	1.4	1.4	-168.70	-114.9	-23.0	117.1	114.3	2.88	40.624		
800.0	800.0	800.0	800.0	1.7	1.7	-168.70	-114.9	-23.0	117.1	113.8	3.33	35.145		
900.0	900.0	900.0	900.0	1.9	1.9	-168.70	-114.9	-23.0	117.1	113.4	3.78	30.969		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-168.70	-114.9	-23.0	117.1	112.9	4.23	27.679		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-168.70	-114.9	-23.0	117.1	112.6	4.57	25.637 CC		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	111.38	-114.9	-23.0	117.2	112.5	4.68	25.052 ES		
1,175.0	1,174.9	1,171.7	1,171.7	2.5	2.5	113.15	-115.5	-24.4	119.3	114.3	4.98	23.951		
1,200.0	1,199.9	1,195.5	1,195.4	2.5	2.5	122.45	-116.1	-25.5	120.9	115.8	5.08	23.777 SF		
1,300.0	1,299.4	1,288.1	1,287.7	2.8	2.7	143.58	-119.8	-32.5	134.1	128.6	5.50	24.398		
1,400.0	1,398.1	1,376.9	1,375.6	3.0	2.9	155.26	-126.2	-43.3	159.0	153.1	5.91	26.890		
1,500.0	1,495.8	1,460.5	1,457.6	3.3	3.1	163.18	-134.7	-57.0	195.4	189.1	6.31	30.956		
1,600.0	1,591.9	1,537.8	1,532.6	3.7	3.4	168.77	-144.6	-72.7	242.6	235.9	6.69	36.281		
1,693.3	1,680.0	1,600.0	1,592.3	4.1	3.6	172.44	-154.1	-87.5	295.3	288.3	7.00	42.216		
1,700.0	1,686.3	1,608.1	1,600.0	4.2	3.7	172.74	-155.4	-89.5	299.4	292.3	7.03	42.574		
1,800.0	1,779.8	1,672.8	1,661.2	4.7	4.0	174.81	-166.8	-107.1	361.9	354.4	7.44	48.612		
1,900.0	1,873.2	1,733.4	1,717.8	5.3	4.3	176.38	-178.8	-125.3	427.5	419.6	7.85	54.423		
2,000.0	1,966.7	1,800.0	1,779.0	5.9	4.7	177.79	-193.3	-147.3	496.0	487.7	8.28	59.886		
2,100.0	2,060.2	1,843.3	1,818.2	6.5	5.0	178.58	-203.5	-162.7	566.8	558.1	8.67	65.354		
2,200.0	2,153.6	1,900.0	1,868.7	7.2	5.4	179.48	-217.7	-184.1	640.0	630.9	9.10	70.364		
2,300.0	2,247.1	1,939.7	1,903.5	7.8	5.8	-179.96	-228.3	-199.9	715.1	705.6	9.50	75.293		
2,400.0	2,340.6	1,991.0	1,947.9	8.5	6.2	-179.30	-242.5	-221.3	791.9	782.0	9.92	79.867		
2,500.0	2,434.0	2,054.2	2,002.5	9.2	6.8	-178.62	-260.3	-247.8	869.2	858.8	10.36	83.887		
2,600.0	2,527.5	2,117.4	2,057.1	9.9	7.4	-178.05	-278.0	-274.3	946.5	935.7	10.79	87.691		
2,700.0	2,620.9	2,180.6	2,111.6	10.5	8.0	-177.57	-295.7	-300.8	1,023.8	1,012.5	11.24	91.093		
2,800.0	2,714.4	2,243.8	2,166.2	11.2	8.6	-177.15	-313.5	-327.3	1,101.1	1,089.4	11.69	94.187		
2,900.0	2,807.9	2,307.0	2,220.7	11.9	9.3	-176.79	-331.2	-353.8	1,178.5	1,166.3	12.14	97.043		
3,000.0	2,901.3	2,370.2	2,275.3	12.6	9.9	-176.47	-348.9	-380.3	1,255.9	1,243.3	12.61	99.615		
3,100.0	2,994.8	2,433.4	2,329.9	13.3	10.5	-176.19	-366.6	-406.9	1,333.3	1,320.2	13.07	101.991		
3,200.0	3,088.3	2,496.6	2,384.4	14.0	11.2	-175.94	-384.4	-433.4	1,410.7	1,397.1	13.54	104.186		
3,300.0	3,181.7	2,559.8	2,439.0	14.7	11.8	-175.71	-402.1	-459.9	1,488.1	1,474.1	14.01	106.179		
3,400.0	3,275.2	2,623.0	2,493.5	15.4	12.5	-175.51	-419.8	-486.4	1,565.5	1,551.0	14.49	108.036		
3,500.0	3,368.7	2,686.2	2,548.1	16.1	13.1	-175.33	-437.6	-512.9	1,642.9	1,628.0	14.97	109.751		
3,600.0	3,462.1	2,749.4	2,602.7	16.8	13.8	-175.16	-455.3	-539.4	1,720.4	1,704.9	15.45	111.333		
3,700.0	3,555.6	2,812.6	2,657.2	17.5	14.4	-175.01	-473.0	-565.9	1,797.8	1,781.9	15.94	112.811		
3,800.0	3,649.0	2,875.8	2,711.8	18.2	15.1	-174.87	-490.7	-592.5	1,875.2	1,858.8	16.42	114.177		
3,900.0	3,742.5	2,939.0	2,766.3	18.9	15.8	-174.74	-508.5	-619.0	1,952.7	1,935.8	16.91	115.452		
4,000.0	3,836.0	3,002.2	2,820.9	19.6	16.4	-174.62	-526.2	-645.5	2,030.1	2,012.7	17.40	116.647		
4,100.0	3,929.4	3,065.4	2,875.5	20.3	17.1	-174.51	-543.9	-672.0	2,107.6	2,089.7	17.90	117.755		
4,200.0	4,022.9	3,128.6	2,930.0	21.0	17.7	-174.41	-561.7	-698.5	2,185.1	2,166.7	18.39	118.797		
4,300.0	4,116.4	3,191.8	2,984.6	21.7	18.4	-174.31	-579.4	-725.0	2,262.5	2,243.6	18.89	119.775		
4,400.0	4,209.8	3,255.0	3,039.2	22.4	19.1	-174.22	-597.1	-751.5	2,340.0	2,320.6	19.39	120.689		
4,419.3	4,227.9	3,267.2	3,049.7	22.6	19.2	-174.21	-600.5	-756.6	2,354.9	2,335.5	19.48	120.860		
4,500.0	4,303.9	3,319.5	3,094.8	23.1	19.8	-174.41	-615.2	-778.6	2,416.4	2,396.2	20.12	120.085		
4,600.0	4,399.5	3,387.8	3,153.8	23.5	20.5	-174.62	-634.4	-807.2	2,489.3	2,468.5	20.86	119.332		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 23C-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	3,459.8	3,215.9	23.9	21.2	-174.77	-654.5	-837.4	2,558.7	2,537.1	21.56	118.674		
4,800.0	4,594.8	3,535.2	3,281.1	24.3	22.0	-174.89	-675.7	-869.1	2,624.1	2,601.9	22.22	118.114		
4,900.0	4,693.8	3,614.0	3,349.0	24.5	22.9	-174.97	-697.8	-902.1	2,685.6	2,662.8	22.83	117.645		
5,000.0	4,793.4	3,695.7	3,419.6	24.7	23.7	-175.02	-720.7	-936.4	2,742.9	2,719.5	23.39	117.264		
5,100.0	4,893.4	3,780.4	3,492.7	24.9	24.6	-175.04	-744.5	-971.9	2,795.8	2,771.9	23.90	116.969		
5,113.6	4,907.0	3,792.1	3,502.8	24.9	24.7	-131.75	-747.8	-976.9	2,802.7	2,778.7	23.97	116.935		
5,200.0	4,993.4	3,866.7	3,567.2	24.9	25.5	-131.63	-768.7	-1,008.1	2,845.9	2,821.6	24.37	116.778		
5,300.0	5,093.4	3,953.0	3,641.8	25.0	26.4	-131.49	-792.9	-1,044.4	2,896.1	2,871.2	24.85	116.536		
5,400.0	5,193.4	4,039.4	3,716.3	25.1	27.4	-131.36	-817.1	-1,080.6	2,946.2	2,920.9	25.33	116.295		
5,500.0	5,293.4	4,125.7	3,790.8	25.2	28.3	-131.23	-841.3	-1,116.8	2,996.3	2,970.5	25.82	116.056		
5,600.0	5,393.4	4,212.0	3,865.3	25.3	29.2	-131.11	-865.6	-1,153.0	3,046.5	3,020.2	26.30	115.820		
5,700.0	5,493.4	5,933.6	5,493.4	25.4	37.6	-130.10	-1,100.3	-1,504.0	3,054.8	3,024.1	30.66	99.645		
5,800.0	5,593.4	6,033.6	5,593.4	25.5	37.6	-130.10	-1,100.3	-1,504.0	3,054.8	3,023.8	30.97	98.632		
5,900.0	5,693.4	6,133.6	5,693.4	25.6	37.7	-130.10	-1,100.3	-1,504.0	3,054.8	3,023.5	31.29	97.629		
6,000.0	5,793.4	6,233.6	5,793.4	25.7	37.8	-130.10	-1,100.3	-1,504.0	3,054.8	3,023.2	31.61	96.637		
6,100.0	5,893.4	6,333.6	5,893.4	25.8	37.8	-130.10	-1,100.3	-1,504.0	3,054.8	3,022.9	31.94	95.656		
6,200.0	5,993.4	6,433.6	5,993.4	26.0	37.9	-130.10	-1,100.3	-1,504.0	3,054.8	3,022.5	32.26	94.686		
6,300.0	6,093.4	6,533.6	6,093.4	26.1	38.0	-130.10	-1,100.3	-1,504.0	3,054.8	3,022.2	32.59	93.727		
6,400.0	6,193.4	6,633.6	6,193.4	26.2	38.0	-130.10	-1,100.3	-1,504.0	3,054.8	3,021.9	32.93	92.780		
6,500.0	6,293.4	6,733.6	6,293.4	26.3	38.1	-130.10	-1,100.3	-1,504.0	3,054.8	3,021.5	33.26	91.844		
6,600.0	6,393.4	6,833.6	6,393.4	26.4	38.2	-130.10	-1,100.3	-1,504.0	3,054.8	3,021.2	33.60	90.920		
6,700.0	6,493.4	6,933.6	6,493.4	26.5	38.3	-130.10	-1,100.3	-1,504.0	3,054.8	3,020.9	33.94	90.007		
6,800.0	6,593.4	7,033.6	6,593.4	26.6	38.3	-130.10	-1,100.3	-1,504.0	3,054.8	3,020.5	34.28	89.107		
6,900.0	6,693.4	7,133.6	6,693.4	26.7	38.4	-130.10	-1,100.3	-1,504.0	3,054.8	3,020.2	34.63	88.218		
7,000.0	6,793.4	7,233.6	6,793.4	26.9	38.5	-130.10	-1,100.3	-1,504.0	3,054.8	3,019.8	34.98	87.340		
7,100.0	6,893.4	7,333.6	6,893.4	27.0	38.6	-130.10	-1,100.3	-1,504.0	3,054.8	3,019.5	35.33	86.475		
7,200.0	6,993.4	7,433.6	6,993.4	27.1	38.7	-130.10	-1,100.3	-1,504.0	3,054.8	3,019.1	35.68	85.621		
7,300.0	7,093.4	7,533.6	7,093.4	27.2	38.8	-130.10	-1,100.3	-1,504.0	3,054.8	3,018.8	36.03	84.779		
7,400.0	7,193.4	7,633.6	7,193.4	27.4	38.8	-130.10	-1,100.3	-1,504.0	3,054.8	3,018.4	36.39	83.949		
7,500.0	7,293.4	7,733.6	7,293.4	27.5	38.9	-130.10	-1,100.3	-1,504.0	3,054.8	3,018.1	36.75	83.130		
7,598.6	7,392.0	7,832.2	7,392.0	27.6	39.0	-130.10	-1,100.3	-1,504.0	3,054.8	3,017.7	37.10	82.334		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 23D-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	-170.31	-134.9	-23.0	136.8								
100.0	100.0	100.0	100.0	0.1	0.1	-170.31	-134.9	-23.0	136.8	136.6	0.19	733.430					
200.0	200.0	200.0	200.0	0.3	0.3	-170.31	-134.9	-23.0	136.8	136.2	0.64	215.105					
300.0	300.0	300.0	300.0	0.5	0.5	-170.31	-134.9	-23.0	136.8	135.7	1.09	126.035					
400.0	400.0	400.0	400.0	0.8	0.8	-170.31	-134.9	-23.0	136.8	135.3	1.54	89.128					
500.0	500.0	500.0	500.0	1.0	1.0	-170.31	-134.9	-23.0	136.8	134.8	1.98	68.941					
600.0	600.0	600.0	600.0	1.2	1.2	-170.31	-134.9	-23.0	136.8	134.4	2.43	56.209					
700.0	700.0	700.0	700.0	1.4	1.4	-170.31	-134.9	-23.0	136.8	133.9	2.88	47.447					
800.0	800.0	800.0	800.0	1.7	1.7	-170.31	-134.9	-23.0	136.8	133.5	3.33	41.048					
900.0	900.0	900.0	900.0	1.9	1.9	-170.31	-134.9	-23.0	136.8	133.0	3.78	36.170					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-170.31	-134.9	-23.0	136.8	132.6	4.23	32.329					
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-170.31	-134.9	-23.0	136.8	132.3	4.57	29.943 CC, ES					
1,100.0	1,100.0	1,099.3	1,099.3	2.3	2.3	109.83	-134.9	-23.2	137.0	132.3	4.67	29.305					
1,175.0	1,174.9	1,171.9	1,171.9	2.5	2.5	111.88	-135.4	-25.9	139.0	134.0	4.97	27.962					
1,200.0	1,199.9	1,195.1	1,195.0	2.5	2.5	121.19	-135.7	-27.3	140.4	135.4	5.07	27.694 SF					
1,300.0	1,299.4	1,286.1	1,285.5	2.8	2.7	142.05	-139.2	-35.4	153.5	148.0	5.48	28.017					
1,400.0	1,398.1	1,373.3	1,371.8	3.0	2.9	153.25	-146.0	-46.4	178.6	172.7	5.90	30.279					
1,500.0	1,495.8	1,455.4	1,452.3	3.3	3.1	160.72	-155.3	-59.8	215.4	209.1	6.30	34.163					
1,600.0	1,591.9	1,531.3	1,525.8	3.7	3.4	165.96	-166.4	-74.6	262.9	256.2	6.68	39.344					
1,693.3	1,680.0	1,600.0	1,591.6	4.1	3.6	169.64	-178.6	-90.1	316.0	308.9	7.01	45.061					
1,700.0	1,686.3	1,600.0	1,591.6	4.2	3.6	169.64	-178.6	-90.1	320.0	313.0	7.03	45.521					
1,800.0	1,779.8	1,663.7	1,651.9	4.7	3.9	171.60	-191.6	-106.2	382.9	375.5	7.45	51.429					
1,900.0	1,873.2	1,723.2	1,707.4	5.3	4.3	173.05	-205.3	-122.7	448.9	441.0	7.85	57.156					
2,000.0	1,966.7	1,778.9	1,758.6	5.9	4.6	174.16	-219.4	-139.4	517.6	509.4	8.26	62.656					
2,100.0	2,060.2	1,831.1	1,805.9	6.5	5.0	175.03	-233.7	-156.2	588.8	580.2	8.66	67.967					
2,200.0	2,153.6	1,880.0	1,849.6	7.2	5.3	175.72	-248.1	-172.8	662.3	653.2	9.07	73.003					
2,300.0	2,247.1	1,925.8	1,889.9	7.8	5.7	176.29	-262.4	-189.2	737.7	728.2	9.47	77.882					
2,400.0	2,340.6	1,968.8	1,927.1	8.5	6.1	176.75	-276.6	-205.3	814.9	805.0	9.88	82.519					
2,500.0	2,434.0	2,009.0	1,961.5	9.2	6.4	177.14	-290.5	-221.0	893.7	883.4	10.27	87.028					
2,600.0	2,527.5	2,050.9	1,996.6	9.9	6.8	177.51	-305.7	-238.0	974.0	963.3	10.68	91.230					
2,700.0	2,620.9	2,102.8	2,039.8	10.5	7.4	177.90	-324.8	-259.3	1,055.1	1,044.0	11.09	95.122					
2,800.0	2,714.4	2,161.0	2,088.4	11.2	8.0	178.29	-346.3	-283.4	1,136.3	1,124.8	11.52	98.628					
2,900.0	2,807.9	2,219.3	2,136.9	11.9	8.6	178.62	-367.8	-307.4	1,217.4	1,205.5	11.94	101.932					
3,000.0	2,901.3	2,277.6	2,185.5	12.6	9.2	178.92	-389.3	-331.4	1,298.6	1,286.3	12.38	104.938					
3,100.0	2,994.8	2,335.8	2,234.0	13.3	9.8	179.18	-410.8	-355.4	1,379.8	1,367.0	12.81	107.712					
3,200.0	3,088.3	2,394.1	2,282.6	14.0	10.5	179.41	-432.3	-379.4	1,461.0	1,447.8	13.25	110.298					
3,300.0	3,181.7	2,452.4	2,331.1	14.7	11.1	179.61	-453.7	-403.4	1,542.2	1,528.5	13.69	112.649					
3,400.0	3,275.2	2,510.7	2,379.6	15.4	11.7	179.80	-475.2	-427.5	1,623.4	1,609.3	14.13	114.863					
3,500.0	3,368.7	2,568.9	2,428.2	16.1	12.4	179.97	-496.7	-451.5	1,704.7	1,690.1	14.58	116.893					
3,600.0	3,462.1	2,627.2	2,476.7	16.8	13.0	-179.88	-518.2	-475.5	1,785.9	1,770.9	15.03	118.793					
3,700.0	3,555.6	2,685.5	2,525.3	17.5	13.7	-179.74	-539.7	-499.5	1,867.1	1,851.6	15.49	120.565					
3,800.0	3,649.0	2,743.7	2,573.8	18.2	14.3	-179.62	-561.2	-523.5	1,948.4	1,932.4	15.94	122.208					
3,900.0	3,742.5	2,802.0	2,622.4	18.9	15.0	-179.50	-582.7	-547.6	2,029.6	2,013.2	16.40	123.761					
4,000.0	3,836.0	2,860.3	2,670.9	19.6	15.6	-179.39	-604.2	-571.6	2,110.8	2,094.0	16.86	125.193					
4,100.0	3,929.4	2,918.5	2,719.5	20.3	16.3	-179.29	-625.7	-595.6	2,192.1	2,174.7	17.32	126.549					
4,200.0	4,022.9	2,976.8	2,768.0	21.0	17.0	-179.20	-647.2	-619.6	2,273.3	2,255.5	17.79	127.816					
4,300.0	4,116.4	3,035.1	2,816.5	21.7	17.6	-179.11	-668.7	-643.6	2,354.5	2,336.3	18.25	129.007					
4,400.0	4,209.8	3,093.3	2,865.1	22.4	18.3	-179.03	-690.2	-667.6	2,435.8	2,417.1	18.72	130.133					
4,419.3	4,227.9	3,104.6	2,874.5	22.6	18.4	-179.01	-694.3	-672.3	2,451.5	2,432.7	18.81	130.343					
4,500.0	4,303.9	3,153.0	2,914.8	23.1	18.9	-179.01	-712.2	-692.2	2,516.0	2,496.6	19.40	129.682					
4,600.0	4,399.5	3,216.7	2,967.8	23.5	19.7	-178.99	-735.6	-718.5	2,593.1	2,573.0	20.09	129.089					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 23D-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	3,284.3	3,024.2	23.9	20.4	-178.98	-760.6	-746.3	2,666.7	2,646.0	20.74	128.576		
4,800.0	4,594.8	3,355.6	3,083.6	24.3	21.3	-178.96	-786.9	-775.7	2,736.7	2,715.3	21.36	128.138		
4,900.0	4,693.8	3,430.6	3,146.0	24.5	22.1	-178.93	-814.5	-806.6	2,802.9	2,780.9	21.94	127.774		
5,000.0	4,793.4	3,508.8	3,211.2	24.7	23.0	-178.91	-843.4	-838.9	2,865.0	2,842.5	22.47	127.479		
5,100.0	4,893.4	3,590.3	3,279.1	24.9	23.9	-178.88	-873.4	-872.5	2,923.0	2,900.0	22.97	127.245		
5,113.6	4,907.0	3,601.6	3,288.5	24.9	24.1	-135.58	-877.6	-877.1	2,930.5	2,907.5	23.04	127.219		
5,200.0	4,993.4	3,673.5	3,348.5	24.9	24.9	-135.52	-904.2	-906.8	2,978.2	2,954.8	23.43	127.126		
5,300.0	5,093.4	3,756.9	3,417.9	25.0	25.8	-135.46	-934.9	-941.1	3,033.5	3,009.6	23.90	126.939		
5,400.0	5,193.4	3,840.2	3,487.3	25.1	26.8	-135.39	-965.6	-975.5	3,088.7	3,064.3	24.37	126.746		
5,500.0	5,293.4	3,923.5	3,556.7	25.2	27.7	-135.33	-996.3	-1,009.8	3,144.0	3,119.1	24.84	126.549		
5,600.0	5,393.4	4,006.8	3,626.1	25.3	28.7	-135.27	-1,027.1	-1,044.1	3,199.2	3,173.9	25.32	126.348		
5,700.0	5,493.4	4,090.1	3,695.5	25.4	29.6	-135.21	-1,057.8	-1,078.5	3,254.4	3,228.6	25.80	126.143		
5,800.0	5,593.4	4,172.9	3,764.9	25.5	30.5	-134.63	-1,088.9	-1,109.3	3,309.6	3,283.9	26.28	125.938		
5,900.0	5,693.4	4,256.2	3,834.2	25.6	31.4	-134.63	-1,119.9	-1,140.3	3,364.8	3,339.1	26.76	125.733		
6,000.0	5,793.4	4,339.5	3,903.5	25.7	32.3	-134.63	-1,150.9	-1,170.3	3,420.0	3,394.3	27.24	125.528		
6,100.0	5,893.4	4,422.8	3,972.8	25.8	33.2	-134.63	-1,181.9	-1,201.3	3,475.2	3,449.5	27.72	125.323		
6,200.0	5,993.4	4,506.1	4,042.1	26.0	34.1	-134.63	-1,212.9	-1,232.3	3,530.4	3,504.7	28.20	125.118		
6,300.0	6,093.4	4,589.4	4,111.4	26.1	35.0	-134.63	-1,243.9	-1,263.3	3,585.6	3,559.9	28.68	124.913		
6,400.0	6,193.4	4,672.7	4,180.7	26.2	35.9	-134.63	-1,274.9	-1,294.3	3,640.8	3,615.1	29.16	124.708		
6,500.0	6,293.4	4,756.0	4,250.0	26.3	36.8	-134.63	-1,305.9	-1,325.3	3,696.0	3,670.3	29.64	124.503		
6,600.0	6,393.4	4,839.3	4,319.3	26.4	37.7	-134.63	-1,336.9	-1,356.3	3,751.2	3,725.5	30.12	124.298		
6,700.0	6,493.4	4,922.6	4,388.6	26.5	38.6	-134.63	-1,367.9	-1,386.3	3,806.4	3,780.7	30.60	124.093		
6,800.0	6,593.4	5,005.9	4,457.9	26.6	39.5	-134.63	-1,398.9	-1,415.3	3,861.6	3,835.9	31.08	123.888		
6,900.0	6,693.4	5,089.2	4,527.2	26.7	40.4	-134.63	-1,429.9	-1,444.3	3,916.8	3,890.7	31.56	123.683		
7,000.0	6,793.4	5,172.5	4,596.5	26.9	41.3	-134.63	-1,460.9	-1,483.3	3,972.0	3,946.3	32.04	123.478		
7,100.0	6,893.4	5,255.8	4,665.8	27.0	42.2	-134.63	-1,491.9	-1,515.3	4,027.2	4,001.5	32.52	123.273		
7,200.0	6,993.4	5,339.1	4,735.1	27.1	43.1	-134.63	-1,522.9	-1,546.3	4,082.4	4,056.7	33.00	123.068		
7,300.0	7,093.4	5,422.4	4,804.4	27.2	44.0	-134.63	-1,553.9	-1,575.3	4,137.6	4,111.9	33.48	122.863		
7,400.0	7,193.4	5,505.7	4,873.7	27.4	44.9	-134.63	-1,584.9	-1,604.3	4,192.8	4,166.7	33.96	122.658		
7,500.0	7,293.4	5,589.0	4,943.0	27.5	45.8	-134.63	-1,615.9	-1,633.3	4,248.0	4,222.3	34.44	122.453		
7,598.6	7,392.0	5,672.6	5,012.6	27.6	46.7	-134.63	-1,646.9	-1,661.3	4,303.2	4,276.7	34.92	122.248		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 24A-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-171.51	-154.9	-23.1	156.6					
100.0	100.0	100.0	100.0	0.1	0.1	-171.51	-154.9	-23.1	156.6	156.4	0.19	839.334		
200.0	200.0	200.0	200.0	0.3	0.3	-171.51	-154.9	-23.1	156.6	155.9	0.64	246.165		
300.0	300.0	300.0	300.0	0.5	0.5	-171.51	-154.9	-23.1	156.6	155.5	1.09	144.233		
400.0	400.0	400.0	400.0	0.8	0.8	-171.51	-154.9	-23.1	156.6	155.0	1.54	101.998		
500.0	500.0	500.0	500.0	1.0	1.0	-171.51	-154.9	-23.1	156.6	154.6	1.98	78.896		
600.0	600.0	600.0	600.0	1.2	1.2	-171.51	-154.9	-23.1	156.6	154.1	2.43	64.326		
700.0	700.0	700.0	700.0	1.4	1.4	-171.51	-154.9	-23.1	156.6	153.7	2.88	54.298		
800.0	800.0	800.0	800.0	1.7	1.7	-171.51	-154.9	-23.1	156.6	153.2	3.33	46.976		
900.0	900.0	900.0	900.0	1.9	1.9	-171.51	-154.9	-23.1	156.6	152.8	3.78	41.393		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-171.51	-154.9	-23.1	156.6	152.4	4.23	36.997		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-171.51	-154.9	-23.1	156.6	152.0	4.57	34.267 CC, ES		
1,100.0	1,100.0	1,098.3	1,098.3	2.3	2.3	108.58	-155.0	-23.2	156.8	152.1	4.67	33.573		
1,175.0	1,174.9	1,168.0	1,168.0	2.5	2.5	109.98	-156.6	-25.1	159.7	154.8	4.95	32.257		
1,200.0	1,199.9	1,190.9	1,190.8	2.5	2.5	118.97	-157.5	-26.2	161.7	156.6	5.05	32.006 SF		
1,300.0	1,299.4	1,280.8	1,280.3	2.8	2.7	138.55	-163.5	-32.7	176.4	170.9	5.46	32.309		
1,400.0	1,398.1	1,367.0	1,365.5	3.0	2.9	148.68	-172.8	-41.8	202.4	196.6	5.88	34.450		
1,500.0	1,495.8	1,448.0	1,444.8	3.3	3.1	155.44	-184.5	-53.2	239.7	233.4	6.28	38.146		
1,600.0	1,591.9	1,522.8	1,517.3	3.7	3.3	160.27	-197.9	-65.9	287.4	280.7	6.67	43.097		
1,693.3	1,680.0	1,586.4	1,578.2	4.1	3.6	163.57	-211.2	-78.5	340.5	333.4	7.00	48.608		
1,700.0	1,686.3	1,590.8	1,582.3	4.2	3.6	163.73	-212.2	-79.4	344.6	337.5	7.03	49.001		
1,800.0	1,779.8	1,653.3	1,641.4	4.7	3.9	165.78	-227.2	-93.4	407.4	400.0	7.45	54.684		
1,900.0	1,873.2	1,711.9	1,696.0	5.3	4.2	167.34	-242.8	-107.8	473.5	465.6	7.86	60.210		
2,000.0	1,966.7	1,766.9	1,746.5	5.9	4.5	168.55	-258.7	-122.5	542.2	534.0	8.28	65.504		
2,100.0	2,060.2	1,818.4	1,793.2	6.5	4.9	169.51	-274.7	-137.3	613.5	604.8	8.68	70.647		
2,200.0	2,153.6	1,866.6	1,836.2	7.2	5.3	170.29	-290.8	-152.0	686.9	677.8	9.09	75.539		
2,300.0	2,247.1	1,900.0	1,865.6	7.8	5.5	170.77	-302.4	-162.7	762.5	753.0	9.48	80.469		
2,400.0	2,340.6	1,954.3	1,912.8	8.5	6.0	171.46	-322.4	-180.9	839.6	829.6	9.91	84.702		
2,500.0	2,434.0	2,000.0	1,951.7	9.2	6.4	171.97	-340.0	-197.0	918.4	908.1	10.31	89.089		
2,600.0	2,527.5	2,031.6	1,978.2	9.9	6.7	172.29	-352.7	-208.6	998.7	988.0	10.70	93.333		
2,700.0	2,620.9	2,066.8	2,007.4	10.5	7.1	172.62	-367.3	-221.8	1,080.3	1,069.2	11.09	97.387		
2,800.0	2,714.4	2,100.0	2,034.5	11.2	7.4	172.90	-381.5	-234.7	1,163.1	1,151.6	11.48	101.352		
2,900.0	2,807.9	2,131.1	2,059.5	11.9	7.7	173.15	-395.1	-247.1	1,247.0	1,235.2	11.87	105.056		
3,000.0	2,901.3	2,175.1	2,094.5	12.6	8.2	173.47	-414.9	-265.0	1,331.8	1,319.5	12.28	108.467		
3,100.0	2,994.8	2,227.8	2,136.5	13.3	8.8	173.81	-438.6	-286.5	1,416.6	1,403.9	12.70	111.578		
3,200.0	3,088.3	2,280.6	2,178.4	14.0	9.4	174.12	-462.2	-308.0	1,501.5	1,488.4	13.11	114.522		
3,300.0	3,181.7	2,333.3	2,220.4	14.7	10.0	174.39	-485.9	-329.5	1,586.3	1,572.8	13.53	117.245		
3,400.0	3,275.2	2,386.1	2,262.3	15.4	10.7	174.64	-509.6	-351.0	1,671.2	1,657.2	13.95	119.800		
3,500.0	3,368.7	2,438.9	2,304.3	16.1	11.3	174.86	-533.3	-372.5	1,756.1	1,741.7	14.38	122.154		
3,600.0	3,462.1	2,491.6	2,346.2	16.8	11.9	175.06	-557.0	-394.0	1,841.0	1,826.2	14.80	124.383		
3,700.0	3,555.6	2,544.4	2,388.2	17.5	12.6	175.24	-580.7	-415.5	1,925.9	1,910.6	15.23	126.433		
3,800.0	3,649.0	2,597.1	2,430.1	18.2	13.2	175.41	-604.4	-437.0	2,010.8	1,995.1	15.66	128.387		
3,900.0	3,742.5	2,649.9	2,472.1	18.9	13.8	175.56	-628.1	-458.5	2,095.7	2,079.6	16.10	130.182		
4,000.0	3,836.0	2,702.6	2,514.0	19.6	14.5	175.71	-651.8	-480.0	2,180.6	2,164.0	16.53	131.900		
4,100.0	3,929.4	2,755.4	2,555.9	20.3	15.1	175.84	-675.5	-501.5	2,265.5	2,248.5	16.97	133.485		
4,200.0	4,022.9	2,808.1	2,597.9	21.0	15.7	175.96	-699.2	-522.9	2,350.4	2,333.0	17.41	135.001		
4,300.0	4,116.4	2,860.9	2,639.8	21.7	16.4	176.07	-722.9	-544.4	2,435.3	2,417.4	17.85	136.409		
4,400.0	4,209.8	2,913.7	2,681.8	22.4	17.0	176.18	-746.6	-565.9	2,520.2	2,501.9	18.30	137.753		
4,419.3	4,227.9	2,923.8	2,689.9	22.6	17.1	176.20	-751.2	-570.1	2,536.6	2,518.2	18.38	138.000		
4,500.0	4,303.9	2,967.8	2,724.9	23.1	17.7	176.51	-771.0	-588.0	2,604.2	2,585.3	18.91	137.691		
4,600.0	4,399.5	3,026.3	2,771.3	23.5	18.4	176.83	-797.2	-611.8	2,685.3	2,665.8	19.53	137.476		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 24A-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	3,088.9	2,821.1	23.9	19.2	177.09	-825.3	-637.3	2,763.3	2,743.1	20.13	137.282		
4,800.0	4,594.8	3,155.5	2,874.1	24.3	20.0	177.31	-855.3	-664.5	2,837.8	2,817.1	20.70	137.109		
4,900.0	4,693.8	3,225.9	2,930.1	24.5	20.8	177.49	-886.9	-693.1	2,908.8	2,887.6	21.24	136.972		
5,000.0	4,793.4	3,299.9	2,988.9	24.7	21.8	177.63	-920.1	-723.3	2,976.0	2,954.3	21.74	136.869		
5,100.0	4,893.4	3,377.3	3,050.5	24.9	22.7	177.76	-954.9	-754.8	3,039.3	3,017.0	22.22	136.791		
5,113.6	4,907.0	3,388.1	3,059.1	24.9	22.8	-138.94	-959.8	-759.2	3,047.6	3,025.3	22.28	136.784		
5,200.0	4,993.4	3,456.8	3,113.7	24.9	23.7	-138.92	-990.6	-787.2	3,099.9	3,077.3	22.66	136.799		
5,300.0	5,093.4	3,536.3	3,176.9	25.0	24.7	-138.89	-1,026.3	-819.6	3,160.6	3,137.5	23.12	136.718		
5,400.0	5,193.4	3,615.9	3,240.1	25.1	25.7	-138.87	-1,062.1	-852.0	3,221.2	3,197.6	23.58	136.624		
5,500.0	5,293.4	3,695.4	3,303.4	25.2	26.6	-138.85	-1,097.8	-884.4	3,281.9	3,257.8	24.04	136.516		
5,600.0	5,393.4	3,774.9	3,366.6	25.3	27.6	-138.83	-1,133.5	-916.8	3,342.5	3,318.0	24.51	136.397		
5,700.0	5,493.4	3,854.4	3,429.8	25.4	28.6	-138.82	-1,169.2	-949.2	3,403.1	3,378.2	24.97	136.268		
5,800.0	5,593.4	3,933.9	3,493.0	25.5	29.6	-138.80	-1,204.9	-981.6	3,463.8	3,438.3	25.44	136.133		
5,900.0	5,693.4	4,013.4	3,556.2	25.6	30.6	-138.78	-1,240.6	-1,014.0	3,524.5	3,500.0	25.90	136.000		
6,000.0	5,793.4	4,092.9	3,618.5	25.7	31.6	-138.76	-1,276.3	-1,046.4	3,585.2	3,561.7	26.36	135.867		
6,100.0	5,893.4	4,172.4	3,680.8	25.8	32.6	-138.74	-1,312.0	-1,078.2	3,645.9	3,622.2	26.82	135.734		
6,200.0	5,993.4	4,251.9	3,743.1	25.9	33.6	-138.72	-1,347.7	-1,109.9	3,706.6	3,683.5	27.28	135.601		
6,300.0	6,093.4	4,331.4	3,805.4	26.0	34.6	-138.70	-1,383.4	-1,141.7	3,767.3	3,744.8	27.74	135.468		
6,400.0	6,193.4	4,410.9	3,867.7	26.1	35.6	-138.68	-1,419.1	-1,173.5	3,828.0	3,805.3	28.20	135.335		
6,500.0	6,293.4	4,490.4	3,929.9	26.2	36.6	-138.66	-1,454.8	-1,205.3	3,888.7	3,866.0	28.66	135.202		
6,600.0	6,393.4	4,569.9	3,992.2	26.3	37.6	-138.64	-1,490.5	-1,237.1	3,949.4	3,926.3	29.12	135.069		
6,700.0	6,493.4	4,649.4	4,054.5	26.4	38.6	-138.62	-1,526.2	-1,268.9	4,010.1	3,987.0	29.58	134.936		
6,800.0	6,593.4	4,728.9	4,116.8	26.5	39.6	-138.60	-1,561.9	-1,300.7	4,070.8	4,047.7	30.04	134.803		
6,900.0	6,693.4	4,808.4	4,179.1	26.6	40.6	-138.58	-1,597.6	-1,332.5	4,131.5	4,108.4	30.50	134.670		
7,000.0	6,793.4	4,887.9	4,241.4	26.7	41.6	-138.56	-1,633.3	-1,364.3	4,192.2	4,169.1	30.96	134.537		
7,100.0	6,893.4	4,967.4	4,303.7	26.8	42.6	-138.54	-1,669.0	-1,396.1	4,252.9	4,230.8	31.42	134.404		
7,200.0	6,993.4	5,046.9	4,366.0	26.9	43.6	-138.52	-1,704.7	-1,427.9	4,313.6	4,291.5	31.88	134.271		
7,300.0	7,093.4	5,126.4	4,428.3	27.0	44.6	-138.50	-1,740.4	-1,459.7	4,374.3	4,352.2	32.34	134.138		
7,400.0	7,193.4	5,205.9	4,490.6	27.1	45.6	-138.48	-1,776.1	-1,491.5	4,435.0	4,412.9	32.80	134.005		
7,500.0	7,293.4	5,285.4	4,552.9	27.2	46.6	-138.46	-1,811.8	-1,523.3	4,495.7	4,473.6	33.26	133.872		
7,598.6	7,392.0	5,364.0	4,615.2	27.3	47.6	-138.44	-1,847.5	-1,555.1	4,556.4	4,534.3	33.72	133.739		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 24B-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-172.44	-174.9	-23.2	176.4						
100.0	100.0	100.0	100.0	0.1	0.1	-172.44	-174.9	-23.2	176.4	176.2	0.19	945.525			
200.0	200.0	200.0	200.0	0.3	0.3	-172.44	-174.9	-23.2	176.4	175.8	0.64	277.310			
300.0	300.0	300.0	300.0	0.5	0.5	-172.44	-174.9	-23.2	176.4	175.3	1.09	162.482			
400.0	400.0	400.0	400.0	0.8	0.8	-172.44	-174.9	-23.2	176.4	174.9	1.54	114.903			
500.0	500.0	500.0	500.0	1.0	1.0	-172.44	-174.9	-23.2	176.4	174.4	1.98	88.877			
600.0	600.0	600.0	600.0	1.2	1.2	-172.44	-174.9	-23.2	176.4	174.0	2.43	72.464			
700.0	700.0	700.0	700.0	1.4	1.4	-172.44	-174.9	-23.2	176.4	173.5	2.88	61.168			
800.0	800.0	800.0	800.0	1.7	1.7	-172.44	-174.9	-23.2	176.4	173.1	3.33	52.919			
900.0	900.0	900.0	900.0	1.9	1.9	-172.44	-174.9	-23.2	176.4	172.6	3.78	46.630			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-172.44	-174.9	-23.2	176.4	172.2	4.23	41.677			
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-172.44	-174.9	-23.2	176.4	171.8	4.57	38.602 CC, ES			
1,100.0	1,100.0	1,098.7	1,098.7	2.3	2.3	107.64	-174.9	-23.3	176.5	171.9	4.67	37.797			
1,175.0	1,174.9	1,169.4	1,169.4	2.5	2.5	108.95	-176.0	-25.2	178.9	173.9	4.96	36.085			
1,200.0	1,199.9	1,192.2	1,192.1	2.5	2.5	117.87	-176.7	-26.3	180.5	175.4	5.06	35.696			
1,300.0	1,299.4	1,281.1	1,280.7	2.8	2.7	137.05	-181.8	-32.2	193.8	188.3	5.46	35.506 SF			
1,400.0	1,398.1	1,366.6	1,365.3	3.0	2.9	146.77	-190.3	-40.5	218.5	212.6	5.87	37.209			
1,500.0	1,495.8	1,447.1	1,444.4	3.3	3.1	153.23	-201.7	-50.7	254.4	248.1	6.28	40.506			
1,600.0	1,591.9	1,521.8	1,517.0	3.7	3.3	157.83	-215.1	-62.0	300.8	294.1	6.67	45.092			
1,693.3	1,680.0	1,585.4	1,578.1	4.1	3.5	160.98	-228.7	-73.2	352.7	345.7	7.01	50.281			
1,700.0	1,686.3	1,589.8	1,582.3	4.2	3.5	161.14	-229.7	-74.0	356.7	349.7	7.04	50.651			
1,800.0	1,779.8	1,652.5	1,641.8	4.7	3.8	163.16	-245.1	-86.5	418.4	411.0	7.47	56.033			
1,900.0	1,873.2	1,711.5	1,697.0	5.3	4.1	164.68	-261.2	-99.3	483.4	475.5	7.89	61.285			
2,000.0	1,966.7	1,766.8	1,748.2	5.9	4.4	165.85	-277.9	-112.4	551.2	542.9	8.31	66.337			
2,100.0	2,060.2	1,818.8	1,795.5	6.5	4.8	166.78	-294.8	-125.5	621.5	612.8	8.72	71.251			
2,200.0	2,153.6	1,867.5	1,839.2	7.2	5.1	167.52	-311.8	-138.6	694.1	684.9	9.14	75.947			
2,300.0	2,247.1	1,900.0	1,868.0	7.8	5.4	167.96	-323.7	-147.8	768.8	759.3	9.53	80.702			
2,400.0	2,340.6	1,956.2	1,917.2	8.5	5.8	168.62	-345.5	-164.4	845.1	835.1	9.97	84.788			
2,500.0	2,434.0	2,000.0	1,954.7	9.2	6.2	169.06	-363.3	-178.0	923.2	912.8	10.37	89.007			
2,600.0	2,527.5	2,034.6	1,984.0	9.9	6.5	169.38	-378.0	-189.1	1,002.7	992.0	10.78	93.059			
2,700.0	2,620.9	2,085.1	2,026.0	10.5	7.0	169.78	-400.4	-206.0	1,083.8	1,072.6	11.20	96.787			
2,800.0	2,714.4	2,117.4	2,052.6	11.2	7.3	170.01	-415.1	-217.0	1,165.7	1,154.1	11.60	100.475			
2,900.0	2,807.9	2,174.3	2,099.4	11.9	7.9	170.38	-440.9	-236.4	1,247.8	1,235.8	12.03	103.759			
3,000.0	2,901.3	2,231.2	2,146.2	12.6	8.5	170.70	-466.7	-255.8	1,330.0	1,317.5	12.45	106.807			
3,100.0	2,994.8	2,288.0	2,193.1	13.3	9.1	170.99	-492.6	-275.2	1,412.1	1,399.2	12.88	109.633			
3,200.0	3,088.3	2,344.9	2,239.9	14.0	9.7	171.24	-518.4	-294.6	1,494.3	1,481.0	13.32	112.210			
3,300.0	3,181.7	2,401.8	2,286.7	14.7	10.3	171.47	-544.2	-314.0	1,576.5	1,562.7	13.75	114.644			
3,400.0	3,275.2	2,458.7	2,333.5	15.4	10.9	171.67	-570.0	-333.4	1,658.6	1,644.5	14.19	116.848			
3,500.0	3,368.7	2,515.5	2,380.3	16.1	11.6	171.86	-595.8	-352.8	1,740.8	1,726.2	14.64	118.933			
3,600.0	3,462.1	2,572.4	2,427.2	16.8	12.2	172.03	-621.6	-372.2	1,823.0	1,807.9	15.08	120.854			
3,700.0	3,555.6	2,629.3	2,474.0	17.5	12.8	172.18	-647.4	-391.6	1,905.2	1,889.7	15.53	122.652			
3,800.0	3,649.0	2,686.2	2,520.8	18.2	13.4	172.32	-673.3	-411.0	1,987.4	1,971.5	15.98	124.334			
3,900.0	3,742.5	2,743.0	2,567.6	18.9	14.1	172.45	-699.1	-430.3	2,069.6	2,053.2	16.44	125.895			
4,000.0	3,836.0	2,799.9	2,614.4	19.6	14.7	172.57	-724.9	-449.7	2,151.9	2,135.0	16.89	127.375			
4,100.0	3,929.4	2,856.8	2,661.3	20.3	15.3	172.69	-750.7	-469.1	2,234.1	2,216.7	17.35	128.739			
4,200.0	4,022.9	2,913.7	2,708.1	21.0	16.0	172.79	-776.5	-488.5	2,316.3	2,298.5	17.81	130.036			
4,300.0	4,116.4	2,970.5	2,754.9	21.7	16.6	172.89	-802.3	-507.9	2,398.5	2,380.2	18.28	131.245			
4,400.0	4,209.8	3,027.4	2,801.7	22.4	17.2	172.98	-828.2	-527.3	2,480.7	2,462.0	18.74	132.388			
4,419.3	4,227.9	3,038.4	2,810.7	22.6	17.4	172.99	-833.1	-531.1	2,496.6	2,477.8	18.83	132.599			
4,500.0	4,303.9	3,085.7	2,849.7	23.1	17.9	173.45	-854.6	-547.2	2,562.0	2,542.6	19.36	132.306			
4,600.0	4,399.5	3,148.0	2,901.0	23.5	18.6	173.91	-882.9	-568.5	2,640.1	2,620.1	19.99	132.048			

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Valley Farms G - Valley Farms G 24B-14-06-92 - Wellbore #1 - Design #1													Offset Site Error: 0.0 usft	
Survey Program: 0-MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	3,214.3	2,955.6	23.9	19.3	174.29	-913.0	-591.1	2,714.9	2,694.3	20.60	131.777		
4,800.0	4,594.8	3,284.5	3,013.3	24.3	20.1	174.60	-944.8	-615.0	2,786.2	2,765.0	21.19	131.510		
4,900.0	4,693.8	3,358.3	3,074.1	24.5	21.0	174.85	-978.3	-640.2	2,853.7	2,832.0	21.74	131.263		
5,000.0	4,793.4	3,435.4	3,137.6	24.7	21.8	175.05	-1,013.4	-666.5	2,917.3	2,895.0	22.26	131.049		
5,100.0	4,893.4	3,515.8	3,203.8	24.9	22.7	175.22	-1,049.8	-693.9	2,976.7	2,954.0	22.75	130.873		
5,113.6	4,907.0	3,527.0	3,213.0	24.9	22.9	-141.48	-1,054.9	-697.7	2,984.5	2,961.7	22.81	130.851		
5,200.0	4,993.4	3,598.1	3,271.5	24.9	23.7	-141.50	-1,087.2	-722.0	3,033.5	3,010.3	23.20	130.770		
5,300.0	5,093.4	3,680.4	3,339.3	25.0	24.6	-141.53	-1,124.6	-750.1	3,090.3	3,066.6	23.67	130.584		
5,400.0	5,193.4	3,762.8	3,407.1	25.1	25.5	-141.56	-1,161.9	-778.1	3,147.0	3,122.9	24.14	130.391		
5,500.0	5,293.4	3,845.1	3,474.8	25.2	26.5	-141.59	-1,199.3	-806.2	3,203.8	3,179.2	24.61	130.193		
5,600.0	5,393.4	3,927.4	3,542.6	25.3	27.4	-141.61	-1,236.7	-834.3	3,260.6	3,235.5	25.08	129.990		
5,700.0	5,493.4	4,009.7	3,610.3	25.4	28.3	-141.64	-1,274.0	-862.4	3,317.3	3,291.8	25.56	129.783		
5,800.0	5,593.4	4,092.0	3,678.1	25.5	29.3	-141.66	-1,311.4	-890.4	3,374.1	3,348.1	26.04	129.573		
5,900.0	5,693.4	4,174.4	3,745.9	25.6	30.2	-141.68	-1,348.8	-918.5	3,430.9	3,404.3	26.52	129.359		
6,000.0	5,793.4	4,256.7	3,813.6	25.7	31.1	-141.71	-1,386.1	-946.6	3,487.6	3,460.6	27.01	129.145		
6,100.0	5,893.4	4,339.0	3,881.4	25.8	32.1	-141.73	-1,423.5	-974.7	3,544.4	3,516.9	27.49	128.929		
6,200.0	5,993.4	4,421.3	3,949.2	26.0	33.0	-141.75	-1,460.9	-1,002.7	3,601.2	3,573.2	27.98	128.712		
6,300.0	6,093.4	4,503.6	4,016.9	26.1	33.9	-141.77	-1,498.2	-1,030.8	3,657.9	3,629.5	28.47	128.496		
6,400.0	6,193.4	4,586.0	4,084.7	26.2	34.9	-141.79	-1,535.6	-1,058.9	3,714.7	3,685.7	28.96	128.279		
6,500.0	6,293.4	4,679.2	4,152.4	26.3	35.9	-141.81	-1,572.9	-1,087.0	3,771.5	3,741.5	29.45	128.062		
6,600.0	6,393.4	4,772.4	4,219.1	26.4	36.9	-141.83	-1,610.2	-1,115.1	3,828.3	3,798.3	29.94	127.845		
6,700.0	6,493.4	4,865.6	4,285.8	26.5	37.9	-141.85	-1,647.5	-1,143.2	3,885.1	3,855.1	30.43	127.628		
6,800.0	6,593.4	4,958.8	4,352.5	26.6	38.9	-141.87	-1,684.8	-1,171.3	3,941.9	3,911.9	30.92	127.411		
6,900.0	6,693.4	5,052.0	4,419.2	26.7	39.9	-141.89	-1,722.1	-1,200.4	3,998.7	3,968.7	31.41	127.194		
7,000.0	6,793.4	5,145.2	4,485.9	26.9	40.9	-141.91	-1,759.4	-1,228.5	4,055.5	4,025.5	31.90	126.977		
7,100.0	6,893.4	5,238.4	4,552.6	27.0	41.9	-141.93	-1,796.7	-1,256.6	4,112.3	4,082.3	32.39	126.760		
7,200.0	6,993.4	5,331.6	4,619.3	27.1	42.9	-142.03	-2,089.5	-1,475.1	3,750.8	3,713.4	37.48	100.089		
7,300.0	7,093.4	5,424.8	4,686.0	27.2	43.9	-142.03	-2,089.5	-1,475.1	3,750.8	3,713.0	37.81	99.210		
7,400.0	7,193.4	5,518.0	4,752.7	27.4	48.5	-142.03	-2,089.5	-1,475.1	3,750.8	3,712.7	38.14	98.341		
7,500.0	7,293.4	5,611.2	4,819.4	27.5	48.5	-142.03	-2,089.5	-1,475.1	3,750.8	3,712.4	38.48	97.482		
7,598.6	7,392.0	8,077.8	7,392.0	27.6	48.6	-142.03	-2,089.5	-1,475.1	3,750.8	3,712.0	38.81	96.643		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 24C-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-172.84	-184.9	-23.2	186.3					
100.0	100.0	100.0	100.0	0.1	0.1	-172.84	-184.9	-23.2	186.3	186.1	0.19	998.700		
200.0	200.0	200.0	200.0	0.3	0.3	-172.84	-184.9	-23.2	186.3	185.7	0.64	292.905		
300.0	300.0	300.0	300.0	0.5	0.5	-172.84	-184.9	-23.2	186.3	185.2	1.09	171.619		
400.0	400.0	400.0	400.0	0.8	0.8	-172.84	-184.9	-23.2	186.3	184.8	1.54	121.365		
500.0	500.0	500.0	500.0	1.0	1.0	-172.84	-184.9	-23.2	186.3	184.3	1.98	93.876		
600.0	600.0	600.0	600.0	1.2	1.2	-172.84	-184.9	-23.2	186.3	183.9	2.43	76.539		
700.0	700.0	700.0	700.0	1.4	1.4	-172.84	-184.9	-23.2	186.3	183.4	2.88	64.608		
800.0	800.0	800.0	800.0	1.7	1.7	-172.84	-184.9	-23.2	186.3	183.0	3.33	55.895		
900.0	900.0	900.0	900.0	1.9	1.9	-172.84	-184.9	-23.2	186.3	182.5	3.78	49.253		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-172.84	-184.9	-23.2	186.3	182.1	4.23	44.021		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-172.84	-184.9	-23.2	186.3	181.7	4.57	40.773 CC, ES		
1,100.0	1,100.0	1,098.3	1,098.3	2.3	2.3	107.24	-185.0	-23.3	186.5	181.8	4.67	39.934		
1,175.0	1,174.9	1,168.1	1,168.0	2.5	2.5	108.36	-186.3	-25.0	189.1	184.1	4.95	38.180		
1,200.0	1,199.9	1,190.7	1,190.6	2.5	2.5	117.20	-187.1	-25.9	190.8	185.7	5.05	37.778		
1,300.0	1,299.4	1,279.0	1,278.6	2.8	2.7	135.98	-192.8	-31.2	204.5	199.0	5.45	37.518 SF		
1,400.0	1,398.1	1,364.0	1,362.7	3.0	2.9	145.32	-202.1	-38.6	229.4	223.6	5.86	39.132		
1,500.0	1,495.8	1,444.1	1,441.4	3.3	3.1	151.45	-214.2	-47.7	265.4	259.1	6.27	42.317		
1,600.0	1,591.9	1,518.3	1,513.5	3.7	3.3	155.82	-228.4	-57.9	311.7	305.1	6.67	46.768		
1,693.3	1,680.0	1,581.7	1,574.4	4.1	3.5	158.81	-242.6	-68.0	363.5	356.5	7.02	51.805		
1,700.0	1,686.3	1,586.0	1,578.5	4.2	3.5	158.97	-243.7	-68.7	367.5	360.4	7.04	52.164		
1,800.0	1,779.8	1,648.5	1,637.9	4.7	3.8	160.93	-259.8	-80.0	429.1	421.6	7.48	57.395		
1,900.0	1,873.2	1,700.0	1,686.1	5.3	4.1	162.26	-274.6	-90.1	493.9	486.0	7.89	62.616		
2,000.0	1,966.7	1,762.4	1,743.9	5.9	4.4	163.58	-294.2	-103.5	561.4	553.1	8.33	67.406		
2,100.0	2,060.2	1,814.2	1,791.1	6.5	4.7	164.50	-311.8	-115.5	631.6	622.8	8.75	72.181		
2,200.0	2,153.6	1,862.9	1,834.8	7.2	5.1	165.23	-329.6	-127.5	703.9	694.8	9.17	76.753		
2,300.0	2,247.1	1,900.0	1,867.7	7.8	5.3	165.71	-343.9	-137.0	778.4	768.9	9.58	81.291		
2,400.0	2,340.6	1,951.5	1,912.7	8.5	5.8	166.31	-364.7	-151.0	854.6	844.6	10.02	85.326		
2,500.0	2,434.0	2,000.0	1,954.3	9.2	6.2	166.78	-385.5	-164.8	932.6	922.1	10.43	89.374		
2,600.0	2,527.5	2,029.9	1,979.5	9.9	6.5	167.05	-398.7	-173.6	1,011.9	1,001.1	10.84	93.382		
2,700.0	2,620.9	2,065.6	2,009.4	10.5	6.8	167.34	-415.2	-184.4	1,092.7	1,081.5	11.24	97.179		
2,800.0	2,714.4	2,100.0	2,037.6	11.2	7.1	167.58	-431.5	-195.2	1,174.8	1,163.1	11.64	100.886		
2,900.0	2,807.9	2,131.1	2,062.9	11.9	7.5	167.79	-446.7	-205.2	1,257.9	1,245.9	12.05	104.392		
3,000.0	2,901.3	2,171.5	2,095.1	12.6	7.9	168.03	-467.0	-218.6	1,342.2	1,329.8	12.47	107.657		
3,100.0	2,994.8	2,205.0	2,121.6	13.3	8.3	168.21	-484.2	-229.8	1,427.1	1,414.3	12.88	110.838		
3,200.0	3,088.3	2,257.5	2,163.1	14.0	8.9	168.47	-511.0	-247.4	1,512.2	1,498.9	13.31	113.655		
3,300.0	3,181.7	2,310.0	2,204.6	14.7	9.4	168.70	-537.9	-265.1	1,597.2	1,583.5	13.73	116.347		
3,400.0	3,275.2	2,362.5	2,246.1	15.4	10.0	168.91	-564.7	-282.7	1,682.3	1,668.2	14.16	118.794		
3,500.0	3,368.7	2,414.9	2,287.6	16.1	10.6	169.10	-591.6	-300.3	1,767.4	1,752.8	14.59	121.115		
3,600.0	3,462.1	2,467.4	2,329.1	16.8	11.3	169.27	-618.4	-317.9	1,852.5	1,837.4	15.03	123.250		
3,700.0	3,555.6	2,519.9	2,370.6	17.5	11.9	169.42	-645.3	-335.6	1,937.6	1,922.1	15.47	125.265		
3,800.0	3,649.0	2,572.4	2,412.1	18.2	12.5	169.57	-672.1	-353.2	2,022.6	2,006.7	15.91	127.137		
3,900.0	3,742.5	2,624.8	2,453.6	18.9	13.1	169.70	-699.0	-370.8	2,107.7	2,091.4	16.35	128.898		
4,000.0	3,836.0	2,677.3	2,495.1	19.6	13.7	169.82	-725.8	-388.4	2,192.8	2,176.0	16.80	130.546		
4,100.0	3,929.4	2,729.8	2,536.6	20.3	14.3	169.93	-752.7	-406.1	2,277.9	2,260.7	17.24	132.093		
4,200.0	4,022.9	2,782.3	2,578.1	21.0	15.0	170.03	-779.5	-423.7	2,363.0	2,345.3	17.69	133.551		
4,300.0	4,116.4	2,834.7	2,619.6	21.7	15.6	170.13	-806.4	-441.3	2,448.1	2,430.0	18.15	134.918		
4,400.0	4,209.8	2,887.2	2,661.1	22.4	16.2	170.22	-833.3	-458.9	2,533.2	2,514.6	18.60	136.214		
4,419.3	4,227.9	2,897.3	2,669.1	22.6	16.3	170.24	-838.4	-462.3	2,549.6	2,530.9	18.68	136.458		
4,500.0	4,303.9	2,941.1	2,703.7	23.1	16.8	170.91	-860.8	-477.0	2,617.4	2,598.2	19.17	136.536		
4,600.0	4,399.5	2,999.2	2,749.7	23.5	17.5	171.58	-890.6	-496.5	2,698.8	2,679.0	19.75	136.675		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 24C-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD															Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
4,700.0	4,496.6	3,061.5	2,798.9	23.9	18.3	172.13	-922.4	-517.5	2,777.0	2,756.7	20.31	136.701					
4,800.0	4,594.8	3,127.7	2,851.3	24.3	19.1	172.57	-956.3	-539.7	2,851.9	2,831.0	20.86	136.685					
4,900.0	4,693.8	3,197.8	2,906.7	24.5	19.9	172.92	-992.2	-563.2	2,923.3	2,901.9	21.39	136.653					
5,000.0	4,793.4	3,271.4	2,964.9	24.7	20.8	173.20	-1,029.9	-587.9	2,990.9	2,969.0	21.89	136.615					
5,100.0	4,893.4	3,348.4	3,025.8	24.9	21.7	173.43	-1,069.3	-613.8	3,054.6	3,032.3	22.36	136.593					
5,113.6	4,907.0	3,359.1	3,034.3	24.9	21.9	-143.25	-1,074.8	-617.4	3,063.0	3,040.6	22.42	136.592					
5,200.0	4,993.4	3,427.4	3,088.3	24.9	22.7	-143.31	-1,109.7	-640.4	3,115.8	3,093.0	22.81	136.616					
5,300.0	5,093.4	3,506.5	3,150.8	25.0	23.6	-143.38	-1,150.2	-666.9	3,176.9	3,153.7	23.27	136.545					
5,400.0	5,193.4	3,585.6	3,213.4	25.1	24.6	-143.44	-1,190.7	-693.5	3,238.1	3,214.4	23.73	136.458					
5,500.0	5,293.4	3,664.7	3,275.9	25.2	25.6	-143.50	-1,231.1	-720.0	3,299.2	3,275.0	24.20	136.360					
5,600.0	5,393.4	3,743.8	3,338.4	25.3	26.5	-143.56	-1,271.6	-746.6	3,360.4	3,335.7	24.66	136.254					
5,700.0	5,493.4	3,822.8	3,400.9	25.4	27.5	-143.62	-1,312.1	-773.1	3,421.5	3,396.4	25.13	136.141					
5,800.0	5,593.4	3,901.9	3,463.5	25.5	28.4	-143.67	-1,352.5	-799.7	3,482.7	3,457.1	25.60	136.020					
5,900.0	5,693.4	3,981.0	3,526.0	25.6	29.4	-143.72	-1,393.0	-826.3	3,543.9	3,517.8	26.08	135.892					
6,000.0	5,793.4	4,060.1	3,588.5	25.7	30.3	-143.77	-1,433.5	-852.8	3,605.0	3,578.5	26.55	135.759					
6,100.0	5,893.4	4,139.1	3,651.1	25.8	31.3	-143.82	-1,473.9	-879.4	3,666.2	3,639.1	27.03	135.622					
6,200.0	5,993.4	4,218.2	3,713.6	26.0	32.3	-143.87	-1,514.4	-905.9	3,727.3	3,699.8	27.51	135.481					
6,300.0	6,093.4	4,297.3	3,776.1	26.1	33.2	-143.92	-1,554.9	-932.5	3,788.5	3,760.5	27.99	135.337					
6,400.0	6,193.4	4,376.4	3,838.7	26.2	34.2	-143.96	-1,595.3	-959.0	3,849.7	3,821.2	28.48	135.189					
6,500.0	6,293.4	4,455.4	3,901.2	26.3	35.1	-144.01	-1,635.8	-985.6	3,910.8	3,881.9	28.96	135.040					
6,600.0	6,393.4	4,534.5	3,963.7	26.4	36.0	-144.06	-1,676.3	-1,012.1	3,971.9	3,942.0	29.44	134.891					
6,700.0	6,493.4	4,613.6	4,026.2	26.5	36.9	-144.11	-1,716.8	-1,038.6	4,033.0	4,003.1	29.92	134.742					
6,800.0	6,593.4	4,692.7	4,088.7	26.6	37.8	-144.16	-1,757.3	-1,065.1	4,094.1	4,064.2	30.40	134.593					
6,900.0	6,693.4	4,771.8	4,151.2	26.7	38.7	-144.21	-1,797.8	-1,091.6	4,155.2	4,125.3	30.88	134.444					
7,000.0	6,793.4	4,850.9	4,213.7	26.9	39.6	-144.26	-1,838.3	-1,118.1	4,216.3	4,186.4	31.36	134.295					
7,100.0	6,893.4	4,930.0	4,276.2	27.0	40.5	-144.31	-1,878.8	-1,144.6	4,277.4	4,247.5	31.84	134.146					
7,200.0	6,993.4	5,009.1	4,338.7	27.1	41.4	-144.36	-1,919.3	-1,171.1	4,338.5	4,308.6	32.32	133.997					
7,300.0	7,093.4	5,088.2	4,401.2	27.2	42.3	-144.41	-1,959.8	-1,197.6	4,399.6	4,369.7	32.80	133.848					
7,400.0	7,193.4	5,167.3	4,463.7	27.4	43.2	-144.46	-1,999.8	-1,224.1	4,460.7	4,430.8	33.28	133.699					
7,500.0	7,293.4	5,246.4	4,526.2	27.5	44.1	-144.51	-2,039.8	-1,250.6	4,521.8	4,491.9	33.76	133.550					
7,598.6	7,392.0	5,325.5	4,588.7	27.6	45.0	-144.56	-2,079.8	-1,277.1	4,582.9	4,553.0	34.24	133.401					

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 24D-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-173.19	-194.9	-23.3	196.2					
100.0	100.0	100.0	100.0	0.1	0.1	-173.19	-194.9	-23.3	196.2	196.1	0.19	1,051.941		
200.0	200.0	200.0	200.0	0.3	0.3	-173.19	-194.9	-23.3	196.2	195.6	0.64	308.520		
300.0	300.0	300.0	300.0	0.5	0.5	-173.19	-194.9	-23.3	196.2	195.2	1.09	180.769		
400.0	400.0	400.0	400.0	0.8	0.8	-173.19	-194.9	-23.3	196.2	194.7	1.54	127.835		
500.0	500.0	500.0	500.0	1.0	1.0	-173.19	-194.9	-23.3	196.2	194.3	1.98	98.880		
600.0	600.0	600.0	600.0	1.2	1.2	-173.19	-194.9	-23.3	196.2	193.8	2.43	80.620		
700.0	700.0	700.0	700.0	1.4	1.4	-173.19	-194.9	-23.3	196.2	193.4	2.88	68.052		
800.0	800.0	800.0	800.0	1.7	1.7	-173.19	-194.9	-23.3	196.2	192.9	3.33	58.875		
900.0	900.0	900.0	900.0	1.9	1.9	-173.19	-194.9	-23.3	196.2	192.5	3.78	51.878		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-173.19	-194.9	-23.3	196.2	192.0	4.23	46.368		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-173.19	-194.9	-23.3	196.2	191.7	4.57	42.947	CC, ES	
1,100.0	1,100.0	1,097.5	1,097.5	2.3	2.3	106.87	-195.0	-23.4	196.5	191.8	4.67	42.092		
1,175.0	1,174.9	1,164.8	1,164.8	2.5	2.5	107.73	-197.0	-24.5	199.7	194.7	4.94	40.401		
1,200.0	1,199.9	1,187.1	1,187.0	2.5	2.5	116.44	-198.2	-25.2	201.8	196.7	5.04	40.051		
1,300.0	1,299.4	1,274.8	1,274.4	2.8	2.7	134.70	-205.4	-29.4	216.8	211.4	5.44	39.853	SF	
1,400.0	1,398.1	1,359.1	1,357.7	3.0	2.8	143.56	-216.1	-35.6	242.8	236.9	5.85	41.473		
1,500.0	1,495.8	1,438.5	1,435.5	3.3	3.0	149.31	-229.6	-43.5	279.5	273.2	6.26	44.620		
1,600.0	1,591.9	1,512.0	1,506.9	3.7	3.3	153.39	-245.0	-52.5	326.3	319.6	6.66	48.982		
1,693.3	1,680.0	1,574.7	1,567.0	4.1	3.5	156.18	-260.3	-61.4	378.3	371.3	7.02	53.881		
1,700.0	1,686.3	1,579.0	1,571.1	4.2	3.5	156.33	-261.4	-62.0	382.4	375.3	7.05	54.230		
1,800.0	1,779.8	1,640.9	1,629.7	4.7	3.8	158.25	-278.5	-72.0	444.2	436.7	7.49	59.314		
1,900.0	1,873.2	1,700.0	1,684.9	5.3	4.1	159.75	-296.7	-82.6	509.2	501.2	7.92	64.255		
2,000.0	1,966.7	1,753.7	1,734.4	5.9	4.4	160.88	-314.7	-93.1	576.9	568.6	8.36	69.017		
2,100.0	2,060.2	1,800.0	1,776.5	6.5	4.7	161.71	-331.3	-102.8	647.2	638.5	8.78	73.705		
2,200.0	2,153.6	1,853.2	1,824.2	7.2	5.1	162.53	-351.7	-114.6	719.7	710.5	9.22	78.077		
2,300.0	2,247.1	1,900.0	1,865.5	7.8	5.4	163.15	-370.7	-125.7	794.3	784.6	9.65	82.298		
2,400.0	2,340.6	1,941.1	1,901.2	8.5	5.8	163.63	-388.2	-135.9	870.6	860.5	10.09	86.311		
2,500.0	2,434.0	1,981.1	1,935.5	9.2	6.1	164.05	-406.1	-146.3	948.6	938.1	10.51	90.287		
2,600.0	2,527.5	2,000.0	1,951.6	9.9	6.3	164.23	-414.7	-151.3	1,028.4	1,017.5	10.88	94.487		
2,700.0	2,620.9	2,054.2	1,996.9	10.5	6.8	164.70	-440.5	-166.3	1,108.9	1,097.6	11.34	97.809		
2,800.0	2,714.4	2,100.0	2,034.3	11.2	7.3	165.05	-463.2	-179.6	1,191.1	1,179.4	11.77	101.231		
2,900.0	2,807.9	2,100.0	2,034.3	11.9	7.3	165.05	-463.2	-179.6	1,274.5	1,262.4	12.13	105.111		
3,000.0	2,901.3	2,149.0	2,073.6	12.6	7.8	165.37	-488.5	-194.3	1,358.5	1,345.9	12.57	108.072		
3,100.0	2,994.8	2,200.0	2,113.5	13.3	8.3	165.67	-516.0	-210.3	1,444.0	1,431.0	13.01	111.002		
3,200.0	3,088.3	2,200.0	2,113.5	14.0	8.3	165.67	-516.0	-210.3	1,529.8	1,516.4	13.37	114.422		
3,300.0	3,181.7	2,228.9	2,135.7	14.7	8.7	165.82	-532.0	-219.6	1,616.6	1,602.8	13.78	117.287		
3,400.0	3,275.2	2,262.6	2,161.2	15.4	9.1	165.98	-551.0	-230.7	1,704.2	1,690.0	14.20	120.021		
3,500.0	3,368.7	2,310.5	2,197.4	16.1	9.7	166.19	-578.1	-246.5	1,791.9	1,777.2	14.63	122.491		
3,600.0	3,462.1	2,358.5	2,233.7	16.8	10.2	166.38	-605.2	-262.3	1,879.6	1,864.5	15.06	124.812		
3,700.0	3,555.6	2,406.5	2,270.0	17.5	10.8	166.55	-632.4	-278.1	1,967.3	1,951.8	15.49	127.042		
3,800.0	3,649.0	2,454.4	2,306.2	18.2	11.4	166.71	-659.5	-293.9	2,055.0	2,039.0	15.92	129.078		
3,900.0	3,742.5	2,502.4	2,342.5	18.9	12.0	166.86	-686.7	-309.7	2,142.7	2,126.3	16.35	131.043		
4,000.0	3,836.0	2,550.4	2,378.7	19.6	12.6	166.99	-713.8	-325.5	2,230.4	2,213.6	16.79	132.840		
4,100.0	3,929.4	2,598.3	2,415.0	20.3	13.2	167.12	-740.9	-341.3	2,318.1	2,300.9	17.23	134.576		
4,200.0	4,022.9	2,646.3	2,451.3	21.0	13.8	167.23	-768.1	-357.1	2,405.8	2,388.1	17.67	136.171		
4,300.0	4,116.4	2,694.3	2,487.5	21.7	14.4	167.34	-795.2	-372.9	2,493.5	2,475.4	18.11	137.710		
4,400.0	4,209.8	2,742.3	2,523.8	22.4	15.0	167.44	-822.4	-388.7	2,581.2	2,562.7	18.55	139.136		
4,419.3	4,227.9	2,751.5	2,530.8	22.6	15.1	167.46	-827.6	-391.8	2,598.2	2,579.5	18.64	139.404		
4,500.0	4,303.9	2,791.7	2,561.1	23.1	15.6	168.40	-850.3	-405.0	2,668.1	2,649.1	19.06	140.014		
4,600.0	4,399.5	2,845.5	2,601.8	23.5	16.3	169.34	-880.7	-422.7	2,752.4	2,732.9	19.57	140.649		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 24D-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	2,903.5	2,645.6	23.9	17.0	170.08	-913.6	-441.9	2,833.9	2,813.8	20.08	141.097		
4,800.0	4,594.8	2,965.6	2,692.6	24.3	17.8	170.68	-948.7	-462.3	2,912.2	2,891.6	20.59	141.409		
4,900.0	4,693.8	3,031.7	2,742.6	24.5	18.7	171.16	-986.1	-484.1	2,987.2	2,966.1	21.09	141.662		
5,000.0	4,793.4	3,101.6	2,795.4	24.7	19.5	171.54	-1,025.6	-507.1	3,058.7	3,037.1	21.56	141.885		
5,100.0	4,893.4	3,175.0	2,850.9	24.9	20.5	171.85	-1,067.2	-531.3	3,126.5	3,104.5	22.00	142.084		
5,113.6	4,907.0	3,185.3	2,858.6	24.9	20.6	-144.83	-1,073.0	-534.7	3,135.4	3,113.3	22.06	142.113		
5,200.0	4,993.4	3,250.5	2,908.0	24.9	21.4	-144.91	-1,109.9	-556.2	3,191.8	3,169.4	22.44	142.262		
5,300.0	5,093.4	3,326.1	2,965.1	25.0	22.4	-145.01	-1,152.7	-581.1	3,257.2	3,234.3	22.89	142.327		
5,400.0	5,193.4	3,401.7	3,022.2	25.1	23.4	-145.11	-1,195.4	-606.0	3,322.5	3,299.2	23.34	142.375		
5,500.0	5,293.4	3,477.3	3,079.4	25.2	24.3	-145.20	-1,238.2	-630.9	3,387.9	3,364.1	23.79	142.402		
5,600.0	5,393.4	3,552.9	3,136.5	25.3	25.3	-145.28	-1,281.0	-655.8	3,453.2	3,429.0	24.25	142.416		
5,700.0	5,493.4	3,628.5	3,193.7	25.4	26.3	-145.37	-1,323.7	-680.8	3,518.6	3,493.9	24.71	142.419		
5,800.0	5,593.4	3,704.1	3,250.8	25.5	27.2	-145.45	-1,366.5	-705.7	3,583.9	3,558.8	25.17	142.412		
5,900.0	5,693.4	3,779.7	3,307.9	25.6	28.2	-145.52	-1,409.3	-730.6	3,649.3	3,623.7	25.63	142.391		
6,000.0	5,793.4	3,855.2	3,365.1	25.7	29.2	-145.60	-1,452.0	-755.5	3,714.7	3,688.6	26.09	142.362		
6,100.0	5,893.4	3,930.8	3,422.2	25.8	30.1	-145.67	-1,494.8	-780.4	3,780.0	3,753.5	26.56	142.325		
6,200.0	5,993.4	4,006.4	3,479.3	26.0	31.1	-145.74	-1,537.6	-805.3	3,845.4	3,818.4	27.03	142.282		
6,300.0	6,093.4	4,082.0	3,536.5	26.1	32.1	-145.81	-1,580.3	-830.2	3,910.8	3,883.3	27.50	142.230		
6,400.0	6,193.4	4,157.6	3,593.6	26.2	33.1	-145.87	-1,623.1	-855.1	3,976.2	3,948.2	27.97	142.173		
6,500.0	6,293.4	4,233.2	3,650.7	26.3	34.0	-145.94	-1,665.8	-880.0	4,041.6	4,013.1	28.44	142.111		
6,600.0	6,393.4	4,308.8	3,707.9	26.4	35.0	-146.00	-1,708.6	-904.9	4,107.0	4,078.0	28.91	142.044		
6,700.0	6,493.4	4,384.4	3,765.0	26.5	36.0	-146.06	-1,751.4	-929.8	4,172.3	4,143.0	29.39	141.972		
6,800.0	6,593.4	4,460.0	3,822.1	26.6	37.0	-146.12	-1,794.2	-954.7	4,237.6	4,208.3	29.87	141.900		
6,900.0	6,693.4	4,535.6	3,879.2	26.7	38.0	-146.18	-1,837.0	-979.6	4,302.9	4,273.6	30.35	141.828		
7,000.0	6,793.4	4,611.2	3,936.3	26.9	39.0	-146.24	-1,879.8	-1,004.5	4,368.2	4,339.3	30.83	141.756		
7,100.0	6,893.4	4,686.8	3,993.4	27.0	40.0	-146.30	-1,922.6	-1,029.4	4,433.5	4,404.6	31.31	141.684		
7,200.0	6,993.4	4,762.4	4,050.5	27.1	41.0	-146.36	-1,965.4	-1,054.3	4,498.8	4,469.7	31.79	141.612		
7,300.0	7,093.4	4,838.0	4,107.6	27.2	42.0	-146.42	-2,008.2	-1,079.2	4,564.1	4,535.8	32.27	141.540		
7,400.0	7,193.4	4,913.6	4,164.7	27.4	43.0	-146.48	-2,051.0	-1,104.1	4,629.4	4,600.9	32.75	141.468		
7,500.0	7,293.4	4,989.2	4,221.8	27.5	44.0	-146.54	-2,093.8	-1,129.0	4,694.7	4,666.0	33.23	141.396		
7,598.6	7,392.0	8,350.7	7,392.0	27.6	55.9	-146.99	-2,659.0	-1,458.4	4,205.3	4,165.0	40.31	104.326		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 31A-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	0.23	60.0	0.2	60.0						
100.0	100.0	100.0	100.0	0.1	0.1	0.23	60.0	0.2	60.0	59.8	0.19	321.534			
200.0	200.0	200.0	200.0	0.3	0.3	0.23	60.0	0.2	60.0	59.3	0.64	94.301			
300.0	300.0	300.0	300.0	0.5	0.5	0.23	60.0	0.2	60.0	58.9	1.09	55.253			
400.0	400.0	400.0	400.0	0.8	0.8	0.23	60.0	0.2	60.0	58.4	1.54	39.074			
500.0	500.0	500.0	500.0	1.0	1.0	0.23	60.0	0.2	60.0	58.0	1.98	30.223			
600.0	600.0	600.0	600.0	1.2	1.2	0.23	60.0	0.2	60.0	57.5	2.43	24.642			
700.0	700.0	700.0	700.0	1.4	1.4	0.23	60.0	0.2	60.0	57.1	2.88	20.801			
800.0	800.0	800.0	800.0	1.7	1.7	0.23	60.0	0.2	60.0	56.7	3.33	17.995			
900.0	900.0	900.0	900.0	1.9	1.9	0.23	60.0	0.2	60.0	56.2	3.78	15.857			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	0.23	60.0	0.2	60.0	55.8	4.23	14.173			
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	0.23	60.0	0.2	60.0	55.4	4.57	13.127 CC, ES			
1,100.0	1,100.0	1,099.1	1,099.1	2.3	2.3	-79.94	60.2	0.2	60.1	55.5	4.68	12.857			
1,175.0	1,174.9	1,171.3	1,171.3	2.5	2.5	-82.35	62.8	0.2	62.5	57.5	4.99	12.504			
1,200.0	1,199.9	1,195.3	1,195.2	2.5	2.6	-75.47	64.4	0.2	63.8	58.7	5.10	12.499 SF			
1,300.0	1,299.4	1,290.9	1,290.3	2.8	2.8	-66.06	74.2	0.2	70.4	64.8	5.55	12.680			
1,400.0	1,398.1	1,385.7	1,383.9	3.0	3.0	-67.28	89.4	0.2	79.7	73.7	6.02	13.232			
1,500.0	1,495.8	1,479.9	1,475.8	3.3	3.3	-71.40	109.8	0.2	92.4	85.9	6.56	14.092			
1,600.0	1,591.9	1,577.9	1,570.8	3.7	3.6	-77.31	133.5	0.2	106.4	99.2	7.21	14.767			
1,693.3	1,680.0	1,668.7	1,658.9	4.1	4.0	-84.03	155.5	0.2	119.8	111.8	7.94	15.090			
1,700.0	1,686.3	1,675.2	1,665.3	4.2	4.0	-84.64	157.0	0.2	120.8	112.8	7.99	15.108			
1,800.0	1,779.8	1,772.1	1,759.3	4.7	4.4	-92.69	180.5	0.2	137.3	128.4	8.88	15.454			
1,900.0	1,873.2	1,869.1	1,853.4	5.3	4.8	-98.97	203.9	0.2	155.9	146.1	9.81	15.891			
2,000.0	1,966.7	1,966.0	1,947.5	5.9	5.2	-103.89	227.4	0.2	175.9	165.2	10.76	16.356			
2,100.0	2,060.2	2,063.0	2,041.5	6.5	5.6	-107.80	250.9	0.2	197.0	185.3	11.72	16.813			
2,200.0	2,153.6	2,159.9	2,135.6	7.2	6.1	-110.96	274.3	0.2	218.8	206.1	12.69	17.247			
2,300.0	2,247.1	2,249.8	2,222.4	7.8	6.5	-113.05	297.6	-0.4	242.3	228.6	13.66	17.736			
2,400.0	2,340.6	2,337.3	2,305.6	8.5	7.0	-113.94	324.4	-2.8	269.3	254.6	14.69	18.333			
2,500.0	2,434.0	2,423.2	2,385.9	9.2	7.5	-113.95	354.6	-6.9	299.6	283.8	15.78	18.981			
2,600.0	2,527.5	2,507.0	2,462.7	9.9	8.1	-113.34	387.8	-12.6	333.0	316.0	16.93	19.669			
2,700.0	2,620.9	2,588.6	2,535.7	10.5	8.7	-112.32	423.6	-19.6	369.5	351.3	18.12	20.389			
2,800.0	2,714.4	2,667.5	2,604.5	11.2	9.3	-111.05	461.2	-27.8	409.1	389.7	19.34	21.149			
2,900.0	2,807.9	2,743.5	2,669.0	11.9	10.0	-109.64	500.4	-37.1	451.9	431.3	20.58	21.961			
3,000.0	2,901.3	2,816.5	2,729.1	12.6	10.7	-108.17	540.5	-47.1	497.8	476.0	21.81	22.827			
3,100.0	2,994.8	2,886.4	2,785.0	13.3	11.5	-106.71	581.2	-57.9	546.8	523.7	23.03	23.740			
3,200.0	3,088.3	2,963.8	2,845.1	14.0	12.4	-105.12	628.1	-70.7	598.3	574.0	24.32	24.601			
3,300.0	3,181.7	3,048.0	2,910.4	14.7	13.3	-103.63	679.4	-84.7	650.4	624.8	25.65	25.360			
3,400.0	3,275.2	3,132.2	2,975.7	15.4	14.3	-102.36	730.7	-98.7	702.8	675.9	26.96	26.066			
3,500.0	3,368.7	3,216.4	3,041.0	16.1	15.3	-101.26	781.9	-112.7	755.4	727.2	28.27	26.722			
3,600.0	3,462.1	3,300.5	3,106.3	16.8	16.3	-100.30	833.2	-126.8	808.3	778.7	29.57	27.332			
3,700.0	3,555.6	3,384.7	3,171.5	17.5	17.3	-99.46	884.5	-140.8	861.2	830.3	30.87	27.897			
3,800.0	3,649.0	3,468.9	3,236.8	18.2	18.3	-98.71	935.7	-154.8	914.3	882.1	32.17	28.424			
3,900.0	3,742.5	3,553.1	3,302.1	18.9	19.3	-98.04	987.0	-168.8	967.4	934.0	33.46	28.915			
4,000.0	3,836.0	3,637.3	3,367.4	19.6	20.3	-97.45	1,038.3	-182.9	1,020.7	985.9	34.75	29.374			
4,100.0	3,929.4	3,721.4	3,432.7	20.3	21.3	-96.91	1,089.5	-196.9	1,074.0	1,038.0	36.04	29.803			
4,200.0	4,022.9	3,805.6	3,497.9	21.0	22.3	-96.42	1,140.8	-210.9	1,127.4	1,090.1	37.32	30.206			
4,300.0	4,116.4	3,889.8	3,563.2	21.7	23.4	-95.98	1,192.1	-224.9	1,180.9	1,142.2	38.61	30.583			
4,400.0	4,209.8	3,974.0	3,628.5	22.4	24.4	-95.57	1,243.3	-238.9	1,234.3	1,194.4	39.90	30.938			
4,419.3	4,227.9	3,990.2	3,641.1	22.6	24.6	-95.50	1,253.2	-241.7	1,244.7	1,204.5	40.15	31.004			
4,500.0	4,303.9	4,058.1	3,693.7	23.1	25.4	-96.63	1,294.6	-253.0	1,287.7	1,246.3	41.39	31.109			
4,600.0	4,399.5	4,141.8	3,758.7	23.5	26.5	-97.82	1,345.6	-266.9	1,340.7	1,297.9	42.80	31.328			

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Valley Farms G - Valley Farms G 31A-14-06-92 - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	4,225.0	3,823.2	23.9	27.5	-98.79	1,396.2	-280.8	1,393.3	1,349.2	44.11	31.584		
4,800.0	4,594.8	4,307.4	3,887.0	24.3	28.5	-99.59	1,446.4	-294.5	1,445.4	1,400.1	45.34	31.880		
4,900.0	4,693.8	4,388.7	3,950.1	24.5	29.5	-100.24	1,495.9	-308.0	1,497.3	1,450.8	46.47	32.219		
5,000.0	4,793.4	4,468.8	4,012.2	24.7	30.5	-100.76	1,544.7	-321.4	1,548.9	1,501.3	47.51	32.604		
5,100.0	4,893.4	4,547.4	4,073.1	24.9	31.4	-101.20	1,592.5	-334.5	1,600.3	1,551.8	48.44	33.037		
5,113.6	4,907.0	4,557.9	4,081.3	24.9	31.6	-57.96	1,599.0	-336.2	1,607.3	1,558.7	48.56	33.100		
5,200.0	4,993.4	4,624.9	4,133.3	24.9	32.4	-56.80	1,639.8	-347.4	1,651.9	1,603.0	48.93	33.762		
5,300.0	5,093.4	4,702.5	4,193.4	25.0	33.4	-55.51	1,687.0	-360.3	1,704.4	1,655.0	49.34	34.544		
5,400.0	5,193.4	4,780.0	4,253.6	25.1	34.3	-54.29	1,734.2	-373.2	1,757.5	1,707.8	49.73	35.341		
5,500.0	5,293.4	4,857.6	4,313.7	25.2	35.3	-53.13	1,781.4	-386.1	1,811.3	1,761.2	50.10	36.153		
5,600.0	5,393.4	4,935.1	4,373.8	25.3	36.2	-52.03	1,828.7	-399.1	1,865.7	1,815.2	50.46	36.975		
5,700.0	5,493.4	5,012.7	4,434.0	25.4	37.2	-50.98	1,875.9	-412.0	1,920.6	1,869.8	50.80	37.806		
5,800.0	5,593.4	5,093.4	4,493.4	25.5	44.6	-43.67	2,289.7	-525.2	1,966.4	1,913.7	52.66	37.343		
5,900.0	5,693.4	5,172.9	4,553.4	25.6	44.6	-43.67	2,289.7	-525.2	1,966.4	1,913.6	52.85	37.208		
6,000.0	5,793.4	5,252.4	4,613.4	25.7	44.7	-43.67	2,289.7	-525.2	1,966.4	1,913.4	53.04	37.072		
6,100.0	5,893.4	5,331.9	4,673.4	25.8	44.7	-43.67	2,289.7	-525.2	1,966.4	1,913.2	53.24	36.935		
6,200.0	5,993.4	5,411.4	4,733.4	26.0	44.8	-43.67	2,289.7	-525.2	1,966.4	1,913.0	53.44	36.797		
6,300.0	6,093.4	5,490.9	4,793.4	26.1	44.9	-43.67	2,289.7	-525.2	1,966.4	1,912.8	53.64	36.657		
6,400.0	6,193.4	5,570.4	4,853.4	26.2	44.9	-43.67	2,289.7	-525.2	1,966.4	1,912.6	53.85	36.517		
6,500.0	6,293.4	5,649.9	4,913.4	26.3	45.0	-43.67	2,289.7	-525.2	1,966.4	1,912.3	54.06	36.376		
6,600.0	6,393.4	5,729.4	4,973.4	26.4	45.0	-43.67	2,289.7	-525.2	1,966.4	1,912.1	54.27	36.233		
6,700.0	6,493.4	5,808.9	5,033.4	26.5	45.1	-43.67	2,289.7	-525.2	1,966.4	1,911.9	54.49	36.090		
6,800.0	6,593.4	5,888.4	5,093.4	26.6	45.2	-43.67	2,289.7	-525.2	1,966.4	1,911.7	54.70	35.947		
6,900.0	6,693.4	5,967.9	5,153.4	26.7	45.2	-43.67	2,289.7	-525.2	1,966.4	1,911.5	54.92	35.802		
7,000.0	6,793.4	6,047.4	5,213.4	26.9	45.3	-43.67	2,289.7	-525.2	1,966.4	1,911.3	55.15	35.657		
7,100.0	6,893.4	6,126.9	5,273.4	27.0	45.4	-43.67	2,289.7	-525.2	1,966.4	1,911.0	55.37	35.512		
7,200.0	6,993.4	6,206.4	5,333.4	27.1	45.4	-43.67	2,289.7	-525.2	1,966.4	1,910.8	55.60	35.366		
7,300.0	7,093.4	6,285.9	5,393.4	27.2	45.5	-43.67	2,289.7	-525.2	1,966.4	1,910.6	55.83	35.219		
7,400.0	7,193.4	6,365.4	5,453.4	27.4	45.6	-43.67	2,289.7	-525.2	1,966.4	1,910.3	56.07	35.072		
7,500.0	7,293.4	6,444.9	5,513.4	27.5	45.7	-43.67	2,289.7	-525.2	1,966.4	1,910.1	56.30	34.924		
7,598.6	7,392.0	6,524.4	5,573.4	27.6	45.7	-43.67	2,289.7	-525.2	1,966.4	1,909.9	56.54	34.779		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 31B-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.23	40.0	0.2	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	0.23	40.0	0.2	40.0	39.8	0.19	214.356		
200.0	200.0	200.0	200.0	0.3	0.3	0.23	40.0	0.2	40.0	39.4	0.64	62.868		
300.0	300.0	300.0	300.0	0.5	0.5	0.23	40.0	0.2	40.0	38.9	1.09	36.836		
400.0	400.0	400.0	400.0	0.8	0.8	0.23	40.0	0.2	40.0	38.5	1.54	26.049		
500.0	500.0	500.0	500.0	1.0	1.0	0.23	40.0	0.2	40.0	38.0	1.98	20.149		
600.0	600.0	600.0	600.0	1.2	1.2	0.23	40.0	0.2	40.0	37.6	2.43	16.428		
700.0	700.0	700.0	700.0	1.4	1.4	0.23	40.0	0.2	40.0	37.1	2.88	13.867		
800.0	800.0	800.0	800.0	1.7	1.7	0.23	40.0	0.2	40.0	36.7	3.33	11.997		
900.0	900.0	900.0	900.0	1.9	1.9	0.23	40.0	0.2	40.0	36.2	3.78	10.571		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	0.23	40.0	0.2	40.0	35.8	4.23	9.449		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	0.23	40.0	0.2	40.0	35.4	4.57	8.751		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	-80.04	40.0	0.2	40.0	35.3	4.68	8.540		
1,112.4	1,112.4	1,112.3	1,112.3	2.4	2.4	-80.41	40.0	0.1	39.9	35.2	4.73	8.441 CC, ES		
1,175.0	1,174.9	1,173.9	1,173.9	2.5	2.5	-85.15	40.8	-0.7	40.5	35.5	5.00	8.102		
1,200.0	1,199.9	1,198.5	1,198.5	2.5	2.6	-80.03	41.5	-1.3	41.0	35.9	5.11	8.031 SF		
1,300.0	1,299.4	1,296.0	1,295.8	2.8	2.8	-80.83	45.9	-5.8	44.7	39.2	5.55	8.053		
1,400.0	1,398.1	1,391.7	1,390.8	3.0	3.0	-92.31	54.3	-12.1	54.9	48.8	6.02	9.109		
1,500.0	1,495.8	1,486.2	1,484.1	3.3	3.3	-101.64	68.0	-19.1	72.9	66.3	6.53	11.156		
1,600.0	1,591.9	1,579.4	1,575.1	3.7	3.5	-107.44	86.7	-26.9	97.4	90.3	7.11	13.704		
1,693.3	1,680.0	1,665.0	1,657.5	4.1	3.8	-110.57	108.4	-34.8	125.1	117.4	7.73	16.180		
1,700.0	1,686.3	1,671.1	1,663.3	4.2	3.9	-110.87	110.1	-35.4	127.2	119.5	7.78	16.357		
1,800.0	1,779.8	1,761.6	1,748.9	4.7	4.3	-113.55	137.9	-44.4	160.8	152.2	8.57	18.773		
1,900.0	1,873.2	1,850.8	1,831.7	5.3	4.7	-113.90	169.9	-53.9	196.7	187.2	9.46	20.791		
2,000.0	1,966.7	1,938.4	1,911.0	5.9	5.3	-113.00	205.5	-63.9	234.7	224.2	10.45	22.459		
2,100.0	2,060.2	2,023.8	1,986.4	6.5	5.9	-111.42	244.3	-74.3	274.9	263.4	11.51	23.884		
2,200.0	2,153.6	2,113.6	2,064.3	7.2	6.6	-109.69	287.6	-85.4	316.6	303.9	12.66	25.007		
2,300.0	2,247.1	2,204.2	2,142.8	7.8	7.4	-108.34	331.2	-96.7	358.5	344.6	13.84	25.905		
2,400.0	2,340.6	2,294.7	2,221.4	8.5	8.2	-107.27	374.8	-108.0	400.5	385.5	15.04	26.627		
2,500.0	2,434.0	2,385.2	2,299.9	9.2	9.0	-106.40	418.4	-119.3	442.6	426.4	16.26	27.217		
2,600.0	2,527.5	2,475.7	2,378.4	9.9	9.8	-105.68	461.9	-130.5	484.8	467.3	17.50	27.706		
2,700.0	2,620.9	2,566.2	2,456.9	10.5	10.7	-105.08	505.5	-141.8	527.1	508.3	18.75	28.117		
2,800.0	2,714.4	2,656.7	2,535.4	11.2	11.5	-104.57	549.1	-153.1	569.4	549.4	20.00	28.465		
2,900.0	2,807.9	2,747.2	2,613.9	11.9	12.3	-104.13	592.7	-164.3	611.7	590.4	21.27	28.763		
3,000.0	2,901.3	2,837.7	2,692.5	12.6	13.2	-103.74	636.3	-175.6	654.0	631.5	22.54	29.021		
3,100.0	2,994.8	2,928.2	2,771.0	13.3	14.0	-103.41	679.9	-186.9	696.4	672.6	23.81	29.245		
3,200.0	3,088.3	3,018.7	2,849.5	14.0	14.9	-103.11	723.5	-198.1	738.8	713.7	25.09	29.442		
3,300.0	3,181.7	3,109.2	2,928.0	14.7	15.8	-102.84	767.1	-209.4	781.2	754.8	26.38	29.616		
3,400.0	3,275.2	3,199.8	3,006.5	15.4	16.6	-102.60	810.7	-220.7	823.6	795.9	27.66	29.771		
3,500.0	3,368.7	3,290.3	3,085.0	16.1	17.5	-102.38	854.3	-231.9	866.0	837.1	28.96	29.909		
3,600.0	3,462.1	3,380.8	3,163.6	16.8	18.3	-102.19	897.9	-243.2	908.4	878.2	30.25	30.033		
3,700.0	3,555.6	3,471.3	3,242.1	17.5	19.2	-102.01	941.4	-254.5	950.9	919.3	31.54	30.145		
3,800.0	3,649.0	3,561.8	3,320.6	18.2	20.1	-101.85	985.0	-265.8	993.3	960.5	32.84	30.246		
3,900.0	3,742.5	3,652.3	3,399.1	18.9	21.0	-101.70	1,028.6	-277.0	1,035.8	1,001.7	34.14	30.339		
4,000.0	3,836.0	3,742.8	3,477.6	19.6	21.8	-101.56	1,072.2	-288.3	1,078.3	1,042.8	35.44	30.423		
4,100.0	3,929.4	3,833.3	3,556.1	20.3	22.7	-101.43	1,115.8	-299.6	1,120.7	1,084.0	36.74	30.501		
4,200.0	4,022.9	3,923.8	3,634.7	21.0	23.6	-101.31	1,159.4	-310.8	1,163.2	1,125.1	38.05	30.572		
4,300.0	4,116.4	4,014.3	3,713.2	21.7	24.4	-101.20	1,203.0	-322.1	1,205.7	1,166.3	39.35	30.638		
4,400.0	4,209.8	4,104.8	3,791.7	22.4	25.3	-101.10	1,246.6	-333.4	1,248.1	1,207.5	40.66	30.698		
4,419.3	4,227.9	4,122.3	3,806.8	22.6	25.5	-101.08	1,255.0	-335.5	1,256.3	1,215.4	40.91	30.709		
4,500.0	4,303.9	4,195.4	3,870.3	23.1	26.2	-102.02	1,290.2	-344.7	1,290.3	1,248.2	42.11	30.644		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 31B-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
4,600.0	4,399.5	4,286.1	3,949.0	23.5	27.1	-102.95	1,333.9	-355.9	1,331.5	1,288.1	43.44	30.654					
4,700.0	4,496.6	4,376.7	4,027.5	23.9	28.0	-103.63	1,377.5	-367.2	1,371.8	1,327.1	44.67	30.706					
4,800.0	4,594.8	4,466.9	4,105.8	24.3	28.8	-104.09	1,421.0	-378.5	1,411.1	1,365.3	45.81	30.804					
4,900.0	4,693.8	4,556.5	4,183.5	24.5	29.7	-104.36	1,464.1	-389.6	1,449.5	1,402.7	46.84	30.949					
5,000.0	4,793.4	4,645.1	4,260.4	24.7	30.6	-104.46	1,506.8	-400.6	1,487.1	1,439.4	47.75	31.145					
5,100.0	4,893.4	4,732.7	4,336.4	24.9	31.4	-104.42	1,549.0	-411.6	1,524.1	1,475.6	48.55	31.394					
5,113.6	4,907.0	4,744.6	4,346.6	24.9	31.5	-61.11	1,554.7	-413.0	1,529.1	1,480.5	48.65	31.432					
5,200.0	4,993.4	4,819.5	4,411.6	24.9	32.2	-60.04	1,590.8	-422.4	1,561.1	1,512.0	49.05	31.827					
5,300.0	5,093.4	4,906.2	4,486.9	25.0	33.1	-58.85	1,632.5	-433.2	1,598.7	1,549.2	49.50	32.299					
5,400.0	5,193.4	4,993.0	4,562.1	25.1	33.9	-57.70	1,674.3	-444.0	1,636.9	1,587.0	49.93	32.787					
5,500.0	5,293.4	5,079.7	4,637.4	25.2	34.8	-56.61	1,716.1	-454.8	1,675.8	1,625.4	50.34	33.290					
5,600.0	5,393.4	5,166.5	4,712.6	25.3	35.6	-55.55	1,757.9	-465.6	1,715.2	1,664.5	50.74	33.804					
5,700.0	5,493.4	5,653.1	5,161.9	25.4	38.5	-51.55	1,934.5	-511.2	1,747.8	1,696.1	51.71	33.803					
5,800.0	5,593.4	6,088.3	5,593.4	25.5	39.5	-50.64	1,979.0	-522.7	1,753.0	1,700.7	52.28	33.534					
5,900.0	5,693.4	6,188.3	5,693.4	25.6	39.5	-50.64	1,979.0	-522.7	1,753.0	1,700.5	52.47	33.410					
6,000.0	5,793.4	6,288.3	5,793.4	25.7	39.6	-50.64	1,979.0	-522.7	1,753.0	1,700.3	52.67	33.285					
6,100.0	5,893.4	6,388.3	5,893.4	25.8	39.7	-50.64	1,979.0	-522.7	1,753.0	1,700.1	52.87	33.159					
6,200.0	5,993.4	6,488.3	5,993.4	26.0	39.7	-50.64	1,979.0	-522.7	1,753.0	1,699.9	53.07	33.032					
6,300.0	6,093.4	6,588.3	6,093.4	26.1	39.8	-50.64	1,979.0	-522.7	1,753.0	1,699.7	53.28	32.904					
6,400.0	6,193.4	6,688.3	6,193.4	26.2	39.9	-50.64	1,979.0	-522.7	1,753.0	1,699.5	53.49	32.775					
6,500.0	6,293.4	6,788.3	6,293.4	26.3	39.9	-50.64	1,979.0	-522.7	1,753.0	1,699.3	53.70	32.645					
6,600.0	6,393.4	6,888.3	6,393.4	26.4	40.0	-50.64	1,979.0	-522.7	1,753.0	1,699.1	53.91	32.515					
6,700.0	6,493.4	6,988.3	6,493.4	26.5	40.1	-50.64	1,979.0	-522.7	1,753.0	1,698.8	54.13	32.384					
6,800.0	6,593.4	7,088.3	6,593.4	26.6	40.1	-50.64	1,979.0	-522.7	1,753.0	1,698.6	54.35	32.252					
6,900.0	6,693.4	7,188.3	6,693.4	26.7	40.2	-50.64	1,979.0	-522.7	1,753.0	1,698.4	54.58	32.120					
7,000.0	6,793.4	7,288.3	6,793.4	26.9	40.3	-50.64	1,979.0	-522.7	1,753.0	1,698.2	54.80	31.987					
7,100.0	6,893.4	7,388.3	6,893.4	27.0	40.4	-50.64	1,979.0	-522.7	1,753.0	1,697.9	55.03	31.854					
7,200.0	6,993.4	7,488.3	6,993.4	27.1	40.5	-50.64	1,979.0	-522.7	1,753.0	1,697.7	55.26	31.720					
7,300.0	7,093.4	7,588.3	7,093.4	27.2	40.5	-50.64	1,979.0	-522.7	1,753.0	1,697.5	55.50	31.586					
7,400.0	7,193.4	7,688.3	7,193.4	27.4	40.6	-50.64	1,979.0	-522.7	1,753.0	1,697.2	55.74	31.452					
7,500.0	7,293.4	7,788.3	7,293.4	27.5	40.7	-50.64	1,979.0	-522.7	1,753.0	1,697.0	55.97	31.317					
7,598.6	7,392.0	7,886.9	7,392.0	27.6	40.8	-50.64	1,979.0	-522.7	1,753.0	1,696.8	56.21	31.184					

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 31C-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	0.23	10.0	0.0	10.0						
100.0	100.0	100.0	100.0	0.1	0.1	0.23	10.0	0.0	10.0	9.8	0.19	53.590			
200.0	200.0	200.0	200.0	0.3	0.3	0.23	10.0	0.0	10.0	9.4	0.64	15.717			
300.0	300.0	300.0	300.0	0.5	0.5	0.23	10.0	0.0	10.0	8.9	1.09	9.209			
400.0	400.0	400.0	400.0	0.8	0.8	0.23	10.0	0.0	10.0	8.5	1.54	6.512			
500.0	500.0	500.0	500.0	1.0	1.0	0.23	10.0	0.0	10.0	8.0	1.98	5.037			
600.0	600.0	600.0	600.0	1.2	1.2	0.23	10.0	0.0	10.0	7.6	2.43	4.107			
700.0	700.0	700.0	700.0	1.4	1.4	0.23	10.0	0.0	10.0	7.1	2.88	3.467			
800.0	800.0	800.0	800.0	1.7	1.7	0.23	10.0	0.0	10.0	6.7	3.33	2.999			
900.0	900.0	900.0	900.0	1.9	1.9	0.23	10.0	0.0	10.0	6.2	3.78	2.643			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	0.23	10.0	0.0	10.0	5.8	4.23	2.362			
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	0.23	10.0	0.0	10.0	5.4	4.57	2.188			
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	-80.85	10.0	0.0	10.0	5.3	4.68	2.130			
1,149.2	1,149.2	1,149.2	1,149.2	2.4	2.5	-89.46	10.0	0.0	9.8	4.9	4.89	2.012 CC, ES, SF			
1,175.0	1,174.9	1,174.8	1,174.8	2.5	2.5	-97.88	10.1	-0.1	10.1	5.1	5.00	2.014			
1,200.0	1,199.9	1,199.6	1,199.6	2.5	2.6	-99.97	10.4	-0.5	10.8	5.7	5.11	2.113			
1,300.0	1,299.4	1,298.2	1,298.0	2.8	2.8	-115.90	15.1	-3.4	19.3	13.7	5.55	3.472			
1,400.0	1,398.1	1,395.8	1,395.0	3.0	3.0	-121.68	25.3	-7.7	35.1	29.1	6.00	5.840			
1,500.0	1,495.8	1,492.2	1,489.9	3.3	3.3	-122.90	40.9	-13.3	56.5	50.0	6.50	8.695			
1,600.0	1,591.9	1,586.8	1,582.0	3.7	3.6	-122.65	61.5	-20.2	83.0	75.9	7.07	11.744			
1,693.3	1,680.0	1,673.4	1,665.1	4.1	3.9	-121.94	84.7	-27.7	112.0	104.3	7.70	14.551			
1,700.0	1,686.3	1,679.6	1,670.9	4.2	3.9	-122.02	86.6	-28.3	114.3	106.5	7.75	14.748			
1,800.0	1,779.8	1,770.7	1,756.7	4.7	4.3	-121.88	115.9	-37.4	148.7	140.1	8.56	17.358			
1,900.0	1,873.2	1,860.0	1,839.0	5.3	4.8	-120.28	149.2	-47.4	185.1	175.6	9.50	19.497			
2,000.0	1,966.7	1,951.0	1,921.3	5.9	5.4	-118.24	186.3	-58.5	223.3	212.8	10.53	21.205			
2,100.0	2,060.2	2,043.1	2,004.5	6.5	6.0	-116.74	224.1	-69.7	261.8	250.2	11.62	22.539			
2,200.0	2,153.6	2,135.2	2,087.8	7.2	6.7	-115.61	261.9	-80.9	300.4	287.7	12.73	23.588			
2,300.0	2,247.1	2,227.3	2,171.0	7.8	7.4	-114.75	299.7	-92.2	339.0	325.2	13.88	24.424			
2,400.0	2,340.6	2,319.4	2,254.3	8.5	8.1	-114.06	337.5	-103.4	377.8	362.7	15.05	25.100			
2,500.0	2,434.0	2,411.5	2,337.5	9.2	8.8	-113.49	375.3	-114.6	416.5	400.3	16.24	25.654			
2,600.0	2,527.5	2,503.7	2,420.8	9.9	9.5	-113.03	413.1	-125.9	455.3	437.9	17.43	26.115			
2,700.0	2,620.9	2,595.8	2,504.0	10.5	10.3	-112.63	450.9	-137.1	494.1	475.5	18.64	26.501			
2,800.0	2,714.4	2,687.9	2,587.3	11.2	11.0	-112.30	488.6	-148.3	532.9	513.1	19.86	26.829			
2,900.0	2,807.9	2,780.0	2,670.5	11.9	11.8	-112.01	526.4	-159.6	571.7	550.7	21.09	27.110			
3,000.0	2,901.3	2,872.1	2,753.8	12.6	12.5	-111.75	564.2	-170.8	610.6	588.3	22.32	27.354			
3,100.0	2,994.8	2,964.2	2,837.0	13.3	13.3	-111.53	602.0	-182.0	649.4	625.9	23.56	27.566			
3,200.0	3,088.3	3,056.4	2,920.3	14.0	14.0	-111.33	639.8	-193.3	688.3	663.5	24.80	27.752			
3,300.0	3,181.7	3,148.5	3,003.5	14.7	14.8	-111.16	677.6	-204.5	727.2	701.1	26.05	27.917			
3,400.0	3,275.2	3,240.6	3,086.8	15.4	15.5	-111.00	715.4	-215.7	766.0	738.7	27.30	28.064			
3,500.0	3,368.7	3,332.7	3,170.0	16.1	16.3	-110.85	753.2	-227.0	804.9	776.4	28.55	28.195			
3,600.0	3,462.1	3,424.8	3,253.3	16.8	17.1	-110.72	791.0	-238.2	843.8	814.0	29.80	28.313			
3,700.0	3,555.6	3,516.9	3,336.6	17.5	17.8	-110.60	828.8	-249.4	882.7	851.6	31.06	28.419			
3,800.0	3,649.0	3,609.0	3,419.8	18.2	18.6	-110.50	866.6	-260.7	921.6	889.2	32.32	28.516			
3,900.0	3,742.5	3,701.2	3,503.1	18.9	19.4	-110.40	904.3	-271.9	960.5	926.9	33.58	28.604			
4,000.0	3,836.0	3,793.3	3,586.3	19.6	20.1	-110.30	942.1	-283.1	999.3	964.5	34.84	28.684			
4,100.0	3,929.4	3,885.4	3,669.6	20.3	20.9	-110.22	979.9	-294.4	1,038.2	1,002.1	36.10	28.757			
4,200.0	4,022.9	3,977.5	3,752.8	21.0	21.7	-110.14	1,017.7	-305.6	1,077.1	1,039.8	37.37	28.825			
4,300.0	4,116.4	4,069.6	3,836.1	21.7	22.4	-110.07	1,055.5	-316.8	1,116.0	1,077.4	38.63	28.887			
4,400.0	4,209.8	4,161.7	3,919.3	22.4	23.2	-110.00	1,093.3	-328.1	1,154.9	1,115.0	39.90	28.945			
4,419.3	4,227.9	4,179.5	3,935.4	22.6	23.3	-109.98	1,100.6	-330.2	1,162.4	1,122.3	40.15	28.956			
4,500.0	4,303.9	4,254.0	4,002.7	23.1	24.0	-110.79	1,131.2	-339.3	1,193.3	1,152.0	41.25	28.925			

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 31C-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
4,600.0	4,399.5	4,346.8	4,086.5	23.5	24.7	-111.51	1,169.2	-350.6	1,230.0	1,187.5	42.49	28.945					
4,700.0	4,496.6	4,439.6	4,170.5	23.9	25.5	-111.97	1,207.3	-362.0	1,265.0	1,221.3	43.65	28.981					
4,800.0	4,594.8	4,532.4	4,254.4	24.3	26.3	-112.17	1,245.4	-373.3	1,298.3	1,253.6	44.71	29.037					
4,900.0	4,693.8	4,624.9	4,337.9	24.5	27.1	-112.16	1,283.3	-384.6	1,330.0	1,284.3	45.67	29.120					
5,000.0	4,793.4	4,716.8	4,421.0	24.7	27.8	-111.95	1,321.0	-395.8	1,360.2	1,313.7	46.53	29.235					
5,100.0	4,893.4	4,807.8	4,503.2	24.9	28.6	-111.57	1,358.4	-406.9	1,389.2	1,341.9	47.27	29.388					
5,113.6	4,907.0	4,820.1	4,514.4	24.9	28.7	-68.22	1,363.4	-408.4	1,393.0	1,345.6	47.36	29.412					
5,200.0	4,993.4	4,898.2	4,584.9	24.9	29.4	-67.11	1,395.4	-417.9	1,417.6	1,369.8	47.84	29.633					
5,300.0	5,093.4	4,997.1	4,674.3	25.0	30.2	-65.76	1,435.9	-429.9	1,446.8	1,398.4	48.40	29.890					
5,400.0	5,193.4	5,177.6	4,841.2	25.1	31.2	-63.68	1,501.8	-449.5	1,473.3	1,424.2	49.05	30.039					
5,500.0	5,293.4	5,370.2	5,025.1	25.2	32.2	-62.05	1,556.5	-465.8	1,494.3	1,444.7	49.60	30.124					
5,600.0	5,393.4	5,572.6	5,223.1	25.3	32.9	-60.92	1,596.2	-477.6	1,508.9	1,458.9	50.08	30.132					
5,700.0	5,493.4	5,781.3	5,430.5	25.4	33.3	-60.33	1,617.6	-483.9	1,516.7	1,466.2	50.46	30.056					
5,800.0	5,593.4	5,944.2	5,593.4	25.5	33.5	-60.24	1,620.9	-484.9	1,517.9	1,467.1	50.73	29.923					
5,900.0	5,693.4	6,044.2	5,693.4	25.6	33.6	-60.24	1,620.9	-484.9	1,517.9	1,466.9	50.92	29.806					
6,000.0	5,793.4	6,144.2	5,793.4	25.7	33.7	-60.24	1,620.9	-484.9	1,517.9	1,466.7	51.13	29.687					
6,100.0	5,893.4	6,244.2	5,893.4	25.8	33.7	-60.24	1,620.9	-484.9	1,517.9	1,466.5	51.33	29.568					
6,200.0	5,993.4	6,344.2	5,993.4	26.0	33.8	-60.24	1,620.9	-484.9	1,517.9	1,466.3	51.54	29.447					
6,300.0	6,093.4	6,444.2	6,093.4	26.1	33.9	-60.24	1,620.9	-484.9	1,517.9	1,466.1	51.76	29.326					
6,400.0	6,193.4	6,544.2	6,193.4	26.2	34.0	-60.24	1,620.9	-484.9	1,517.9	1,465.9	51.97	29.204					
6,500.0	6,293.4	6,644.2	6,293.4	26.3	34.1	-60.24	1,620.9	-484.9	1,517.9	1,465.7	52.19	29.082					
6,600.0	6,393.4	6,744.2	6,393.4	26.4	34.2	-60.24	1,620.9	-484.9	1,517.9	1,465.4	52.41	28.959					
6,700.0	6,493.4	6,844.2	6,493.4	26.5	34.2	-60.24	1,620.9	-484.9	1,517.9	1,465.2	52.64	28.835					
6,800.0	6,593.4	6,944.2	6,593.4	26.6	34.3	-60.24	1,620.9	-484.9	1,517.9	1,465.0	52.87	28.711					
6,900.0	6,693.4	7,044.2	6,693.4	26.7	34.4	-60.24	1,620.9	-484.9	1,517.9	1,464.8	53.10	28.586					
7,000.0	6,793.4	7,144.2	6,793.4	26.9	34.5	-60.24	1,620.9	-484.9	1,517.9	1,464.5	53.33	28.461					
7,100.0	6,893.4	7,244.2	6,893.4	27.0	34.6	-60.24	1,620.9	-484.9	1,517.9	1,464.3	53.57	28.336					
7,200.0	6,993.4	7,344.2	6,993.4	27.1	34.7	-60.24	1,620.9	-484.9	1,517.9	1,464.0	53.81	28.210					
7,300.0	7,093.4	7,444.2	7,093.4	27.2	34.8	-60.24	1,620.9	-484.9	1,517.9	1,463.8	54.05	28.084					
7,400.0	7,193.4	7,544.2	7,193.4	27.4	34.9	-60.24	1,620.9	-484.9	1,517.9	1,463.6	54.29	27.957					
7,500.0	7,293.4	7,644.2	7,293.4	27.5	35.0	-60.24	1,620.9	-484.9	1,517.9	1,463.3	54.54	27.831					
7,598.6	7,392.0	7,742.8	7,392.0	27.6	35.1	-60.24	1,620.9	-484.9	1,517.9	1,463.1	54.78	27.706					

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design		Valley Farms G - Valley Farms G 31D-14-06-92 - Wellbore #1 - Design #1											Offset Site Error: 0.0 usft	
Survey Program: 0-MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-20.0	-0.1	20.0					
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-20.0	-0.1	20.0	19.8	0.19	107.177		
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-20.0	-0.1	20.0	19.4	0.64	31.434		
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-20.0	-0.1	20.0	18.9	1.09	18.418		
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-20.0	-0.1	20.0	18.5	1.54	13.024		
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-20.0	-0.1	20.0	18.0	1.98	10.074		
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-20.0	-0.1	20.0	17.6	2.43	8.214		
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-20.0	-0.1	20.0	17.1	2.88	6.934		
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-20.0	-0.1	20.0	16.7	3.33	5.998		
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-20.0	-0.1	20.0	16.2	3.78	5.286		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-20.0	-0.1	20.0	15.8	4.23	4.724		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-20.0	-0.1	20.0	15.4	4.57	4.376 CC		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	100.77	-20.0	-0.1	20.0	15.4	4.68	4.281 ES		
1,175.0	1,174.9	1,174.9	1,174.9	2.5	2.5	108.52	-20.0	-0.1	20.8	15.8	5.00	4.150 SF		
1,200.0	1,199.9	1,199.9	1,199.9	2.5	2.6	120.81	-20.0	-0.1	21.5	16.4	5.11	4.200		
1,300.0	1,299.4	1,300.1	1,300.1	2.8	2.8	152.38	-19.2	-0.1	28.3	22.8	5.55	5.105		
1,400.0	1,398.1	1,400.6	1,400.3	3.0	3.0	172.85	-13.1	-0.4	38.6	32.7	5.95	6.497		
1,500.0	1,495.8	1,499.6	1,498.7	3.3	3.3	-171.43	-1.6	-2.8	54.4	48.1	6.35	8.575		
1,600.0	1,591.9	1,597.1	1,594.6	3.7	3.5	-160.03	15.1	-7.5	76.5	69.7	6.79	11.268		
1,693.3	1,680.0	1,686.1	1,681.2	4.1	3.8	-152.36	34.9	-13.7	102.7	95.4	7.29	14.089		
1,700.0	1,686.3	1,692.5	1,687.3	4.2	3.8	-152.00	36.5	-14.2	104.8	97.4	7.33	14.290		
1,800.0	1,779.8	1,786.0	1,776.8	4.7	4.1	-146.73	62.2	-23.0	136.4	128.3	8.06	16.914		
1,900.0	1,873.2	1,877.7	1,862.9	5.3	4.6	-141.67	92.0	-33.6	169.9	160.9	8.94	19.003		
2,000.0	1,966.7	1,967.1	1,945.0	5.9	5.1	-136.91	125.1	-45.7	205.6	195.7	9.93	20.700		
2,100.0	2,060.2	2,057.4	2,026.4	6.5	5.7	-132.67	161.6	-59.3	243.7	232.6	11.03	22.083		
2,200.0	2,153.6	2,148.5	2,108.6	7.2	6.3	-129.49	198.4	-73.0	282.7	270.5	12.18	23.213		
2,300.0	2,247.1	2,239.5	2,190.7	7.8	7.0	-127.08	235.3	-86.8	322.2	308.9	13.33	24.164		
2,400.0	2,340.6	2,330.6	2,272.9	8.5	7.6	-125.18	272.2	-100.5	362.1	347.6	14.51	24.957		
2,500.0	2,434.0	2,421.7	2,355.0	9.2	8.3	-123.67	309.0	-114.3	402.3	386.6	15.70	25.628		
2,600.0	2,527.5	2,512.8	2,437.2	9.9	9.1	-122.42	345.9	-128.0	442.7	425.8	16.90	26.201		
2,700.0	2,620.9	2,603.9	2,519.3	10.5	9.8	-121.38	382.8	-141.8	483.3	465.2	18.10	26.694		
2,800.0	2,714.4	2,695.0	2,601.5	11.2	10.5	-120.51	419.7	-155.5	523.9	504.6	19.32	27.121		
2,900.0	2,807.9	2,786.1	2,683.6	11.9	11.3	-119.75	456.5	-169.3	564.7	544.1	20.54	27.495		
3,000.0	2,901.3	2,877.2	2,765.8	12.6	12.0	-119.10	493.4	-183.0	605.5	583.7	21.76	27.824		
3,100.0	2,994.8	2,968.3	2,848.0	13.3	12.8	-118.53	530.3	-196.8	646.3	623.3	22.99	28.116		
3,200.0	3,088.3	3,059.4	2,930.1	14.0	13.5	-118.03	567.1	-210.5	687.2	663.0	24.22	28.377		
3,300.0	3,181.7	3,150.4	3,012.3	14.7	14.3	-117.59	604.0	-224.2	728.2	702.8	25.45	28.611		
3,400.0	3,275.2	3,241.5	3,094.4	15.4	15.0	-117.19	640.9	-238.0	769.2	742.5	26.69	28.822		
3,500.0	3,368.7	3,332.6	3,176.6	16.1	15.8	-116.83	677.7	-251.7	810.2	782.3	27.93	29.013		
3,600.0	3,462.1	3,423.7	3,258.7	16.8	16.5	-116.51	714.6	-265.5	851.2	822.1	29.17	29.186		
3,700.0	3,555.6	3,514.8	3,340.9	17.5	17.3	-116.21	751.5	-279.2	892.3	861.9	30.41	29.345		
3,800.0	3,649.0	3,605.9	3,423.0	18.2	18.1	-115.95	788.4	-293.0	933.4	901.7	31.65	29.490		
3,900.0	3,742.5	3,697.0	3,505.2	18.9	18.8	-115.70	825.2	-306.7	974.5	941.6	32.90	29.624		
4,000.0	3,836.0	3,788.1	3,587.3	19.6	19.6	-115.48	862.1	-320.5	1,015.6	981.4	34.14	29.747		
4,100.0	3,929.4	3,879.2	3,669.5	20.3	20.4	-115.27	899.0	-334.2	1,056.7	1,021.3	35.39	29.861		
4,200.0	4,022.9	3,970.3	3,751.6	21.0	21.2	-115.08	935.8	-348.0	1,097.8	1,061.2	36.64	29.966		
4,300.0	4,116.4	4,061.3	3,833.8	21.7	21.9	-114.90	972.7	-361.7	1,139.0	1,101.1	37.88	30.064		
4,400.0	4,209.8	4,152.4	3,915.9	22.4	22.7	-114.73	1,009.6	-375.5	1,180.1	1,141.0	39.13	30.156		
4,419.3	4,227.9	4,170.0	3,931.8	22.6	22.8	-114.70	1,016.7	-378.1	1,188.1	1,148.7	39.38	30.173		
4,500.0	4,303.9	4,243.7	3,998.3	23.1	23.5	-115.46	1,046.5	-389.3	1,220.6	1,180.1	40.48	30.157		
4,600.0	4,399.5	4,335.6	4,081.1	23.5	24.2	-116.14	1,083.7	-403.1	1,259.1	1,217.4	41.71	30.185		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 31D-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
4,700.0	4,496.6	4,436.1	4,171.8	23.9	25.1	-116.50	1,124.3	-418.2	1,295.6	1,252.7	42.91	30.192					
4,800.0	4,594.8	4,595.5	4,318.9	24.3	26.1	-116.32	1,181.6	-439.6	1,327.1	1,282.9	44.18	30.040					
4,900.0	4,693.8	4,762.8	4,478.3	24.5	26.9	-116.09	1,229.2	-457.4	1,351.6	1,306.4	45.20	29.900					
5,000.0	4,793.4	4,936.7	4,648.0	24.7	27.6	-115.84	1,264.6	-470.6	1,368.7	1,322.7	46.01	29.751					
5,100.0	4,893.4	5,115.3	4,825.1	24.9	28.0	-115.57	1,285.8	-478.5	1,378.0	1,331.4	46.55	29.602					
5,113.6	4,907.0	5,139.9	4,849.6	24.9	28.1	-72.24	1,287.5	-479.1	1,378.6	1,332.0	46.60	29.584					
5,200.0	4,993.4	5,283.8	4,993.4	24.9	28.2	-72.10	1,291.5	-480.6	1,380.1	1,333.3	46.85	29.461					
5,300.0	5,093.4	5,383.8	5,093.4	25.0	28.3	-72.10	1,291.5	-480.6	1,380.1	1,333.1	47.04	29.340					
5,400.0	5,193.4	5,483.8	5,193.4	25.1	28.4	-72.10	1,291.5	-480.6	1,380.1	1,332.9	47.23	29.219					
5,500.0	5,293.4	5,583.8	5,293.4	25.2	28.5	-72.10	1,291.5	-480.6	1,380.1	1,332.7	47.43	29.096					
5,600.0	5,393.4	5,683.8	5,393.4	25.3	28.6	-72.10	1,291.5	-480.6	1,380.1	1,332.5	47.64	28.972					
5,700.0	5,493.4	5,783.8	5,493.4	25.4	28.7	-72.10	1,291.5	-480.6	1,380.1	1,332.3	47.84	28.847					
5,800.0	5,593.4	5,883.8	5,593.4	25.5	28.7	-72.10	1,291.5	-480.6	1,380.1	1,332.1	48.05	28.721					
5,900.0	5,693.4	5,983.8	5,693.4	25.6	28.8	-72.10	1,291.5	-480.6	1,380.1	1,331.8	48.26	28.594					
6,000.0	5,793.4	6,083.8	5,793.4	25.7	28.9	-72.10	1,291.5	-480.6	1,380.1	1,331.6	48.48	28.467					
6,100.0	5,893.4	6,183.8	5,893.4	25.8	29.0	-72.10	1,291.5	-480.6	1,380.1	1,331.4	48.70	28.339					
6,200.0	5,993.4	6,283.8	5,993.4	26.0	29.1	-72.10	1,291.5	-480.6	1,380.1	1,331.2	48.92	28.210					
6,300.0	6,093.4	6,383.8	6,093.4	26.1	29.2	-72.10	1,291.5	-480.6	1,380.1	1,331.0	49.15	28.080					
6,400.0	6,193.4	6,483.8	6,193.4	26.2	29.3	-72.10	1,291.5	-480.6	1,380.1	1,330.7	49.38	27.950					
6,500.0	6,293.4	6,583.8	6,293.4	26.3	29.4	-72.10	1,291.5	-480.6	1,380.1	1,330.5	49.61	27.820					
6,600.0	6,393.4	6,683.8	6,393.4	26.4	29.5	-72.10	1,291.5	-480.6	1,380.1	1,330.3	49.84	27.689					
6,700.0	6,493.4	6,783.8	6,493.4	26.5	29.6	-72.10	1,291.5	-480.6	1,380.1	1,330.0	50.08	27.558					
6,800.0	6,593.4	6,883.8	6,593.4	26.6	29.7	-72.10	1,291.5	-480.6	1,380.1	1,329.8	50.32	27.426					
6,900.0	6,693.4	6,983.8	6,693.4	26.7	29.8	-72.10	1,291.5	-480.6	1,380.1	1,329.5	50.56	27.294					
7,000.0	6,793.4	7,083.8	6,793.4	26.9	29.9	-72.10	1,291.5	-480.6	1,380.1	1,329.3	50.81	27.162					
7,100.0	6,893.4	7,183.8	6,893.4	27.0	30.0	-72.10	1,291.5	-480.6	1,380.1	1,329.0	51.06	27.029					
7,200.0	6,993.4	7,283.8	6,993.4	27.1	30.1	-72.10	1,291.5	-480.6	1,380.1	1,328.8	51.31	26.897					
7,300.0	7,093.4	7,383.8	7,093.4	27.2	30.2	-72.10	1,291.5	-480.6	1,380.1	1,328.5	51.57	26.764					
7,400.0	7,193.4	7,483.8	7,193.4	27.4	30.4	-72.10	1,291.5	-480.6	1,380.1	1,328.3	51.82	26.631					
7,500.0	7,293.4	7,583.8	7,293.4	27.5	30.5	-72.10	1,291.5	-480.6	1,380.1	1,328.0	52.08	26.499					
7,598.6	7,392.0	7,682.4	7,392.0	27.6	30.6	-72.10	1,291.5	-480.6	1,380.1	1,327.8	52.34	26.368					

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 32A-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-50.0	-0.2	50.0					
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-50.0	-0.2	50.0	49.8	0.19	267.944		
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-50.0	-0.2	50.0	49.4	0.64	78.584		
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-50.0	-0.2	50.0	48.9	1.09	46.044		
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-50.0	-0.2	50.0	48.5	1.54	32.561		
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-50.0	-0.2	50.0	48.0	1.98	25.186		
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-50.0	-0.2	50.0	47.6	2.43	20.535		
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-50.0	-0.2	50.0	47.1	2.88	17.334		
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-50.0	-0.2	50.0	46.7	3.33	14.996		
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-50.0	-0.2	50.0	46.2	3.78	13.214		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-50.0	-0.2	50.0	45.8	4.23	11.811		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-50.0	-0.2	50.0	45.4	4.57	10.939		
1,100.0	1,100.0	1,100.4	1,100.4	2.3	2.3	100.36	-49.9	-0.1	49.9	45.2	4.68	10.670		
1,175.0	1,174.9	1,176.5	1,176.5	2.5	2.5	102.32	-48.4	1.1	49.0	44.0	5.00	9.806		
1,200.0	1,199.9	1,201.9	1,201.8	2.5	2.6	111.62	-47.6	1.8	48.6	43.5	5.11	9.519		
1,257.7	1,257.4	1,260.4	1,260.3	2.7	2.7	125.63	-44.8	4.1	48.2	42.9	5.37	8.988 CC, ES		
1,300.0	1,299.4	1,303.4	1,303.1	2.8	2.8	132.59	-42.1	6.4	48.5	42.9	5.55	8.727		
1,400.0	1,398.1	1,403.9	1,403.2	3.0	3.0	145.33	-34.5	12.5	51.7	45.7	5.99	8.640 SF		
1,500.0	1,495.8	1,504.3	1,502.9	3.3	3.3	159.87	-23.6	15.3	59.9	53.5	6.37	9.395		
1,600.0	1,591.9	1,602.6	1,600.1	3.7	3.5	174.82	-8.9	13.7	75.2	68.5	6.73	11.169		
1,693.3	1,680.0	1,691.8	1,687.5	4.1	3.8	-173.53	7.8	8.5	97.5	90.4	7.11	13.708		
1,700.0	1,686.3	1,698.1	1,693.6	4.2	3.8	-172.89	9.1	8.0	99.4	92.2	7.15	13.905		
1,800.0	1,779.8	1,790.8	1,783.4	4.7	4.1	-164.37	30.2	-1.3	129.4	121.6	7.77	16.659		
1,900.0	1,873.2	1,883.4	1,872.3	5.3	4.4	-157.82	53.5	-13.2	162.4	153.9	8.51	19.089		
2,000.0	1,966.7	1,976.5	1,961.5	5.9	4.8	-153.42	77.0	-25.2	196.7	187.4	9.31	21.118		
2,100.0	2,060.2	2,069.5	2,050.7	6.5	5.3	-150.32	100.5	-37.2	231.7	221.6	10.17	22.796		
2,200.0	2,153.6	2,162.5	2,139.9	7.2	5.7	-148.03	124.0	-49.2	267.2	256.2	11.05	24.181		
2,300.0	2,247.1	2,255.5	2,229.1	7.8	6.1	-146.27	147.5	-61.2	303.0	291.0	11.96	25.334		
2,400.0	2,340.6	2,348.6	2,318.3	8.5	6.6	-144.88	171.0	-73.2	339.0	326.1	12.89	26.295		
2,500.0	2,434.0	2,441.6	2,407.5	9.2	7.1	-143.76	194.5	-85.1	375.1	361.2	13.83	27.111		
2,600.0	2,527.5	2,534.6	2,496.7	9.9	7.6	-142.84	218.0	-97.1	411.3	396.5	14.79	27.807		
2,700.0	2,620.9	2,627.6	2,585.9	10.5	8.1	-142.06	241.5	-109.1	447.6	431.8	15.76	28.405		
2,800.0	2,714.4	2,720.7	2,675.1	11.2	8.6	-141.40	265.0	-121.1	483.9	467.2	16.73	28.924		
2,900.0	2,807.9	2,813.7	2,764.3	11.9	9.1	-140.84	288.4	-133.1	520.3	502.6	17.71	29.377		
3,000.0	2,901.3	2,906.7	2,853.5	12.6	9.6	-140.34	311.9	-145.1	556.8	538.1	18.70	29.776		
3,100.0	2,994.8	2,999.7	2,942.8	13.3	10.1	-139.91	335.4	-157.1	593.3	573.6	19.69	30.128		
3,200.0	3,088.3	3,092.7	3,032.0	14.0	10.6	-139.53	358.9	-169.1	629.8	609.1	20.69	30.442		
3,300.0	3,181.7	3,185.8	3,121.2	14.7	11.1	-139.19	382.4	-181.1	666.3	644.6	21.69	30.723		
3,400.0	3,275.2	3,278.8	3,210.4	15.4	11.6	-138.88	405.9	-193.0	702.8	680.1	22.69	30.975		
3,500.0	3,368.7	3,371.8	3,299.6	16.1	12.2	-138.61	429.4	-205.0	739.4	715.7	23.69	31.204		
3,600.0	3,462.1	3,464.8	3,388.8	16.8	12.7	-138.36	452.9	-217.0	775.9	751.2	24.70	31.411		
3,700.0	3,555.6	3,557.9	3,478.0	17.5	13.2	-138.13	476.4	-229.0	812.5	786.8	25.71	31.600		
3,800.0	3,649.0	3,650.9	3,567.2	18.2	13.7	-137.92	499.9	-241.0	849.1	822.4	26.72	31.773		
3,900.0	3,742.5	3,743.9	3,656.4	18.9	14.3	-137.73	523.4	-253.0	885.7	858.0	27.74	31.931		
4,000.0	3,836.0	3,836.9	3,745.6	19.6	14.8	-137.56	546.8	-265.0	922.3	893.6	28.75	32.077		
4,100.0	3,929.4	3,930.0	3,834.8	20.3	15.3	-137.40	570.3	-277.0	958.9	929.2	29.77	32.212		
4,200.0	4,022.9	4,023.0	3,924.0	21.0	15.8	-137.25	593.8	-288.9	995.6	964.8	30.79	32.337		
4,300.0	4,116.4	4,116.0	4,013.2	21.7	16.4	-137.11	617.3	-300.9	1,032.2	1,000.4	31.81	32.453		
4,400.0	4,209.8	4,209.0	4,102.4	22.4	16.9	-136.98	640.8	-312.9	1,068.8	1,036.0	32.83	32.560		
4,419.3	4,227.9	4,227.0	4,119.6	22.6	17.0	-136.95	645.3	-315.2	1,075.9	1,042.9	33.02	32.580		
4,500.0	4,303.9	4,302.5	4,192.0	23.1	17.4	-137.41	664.4	-325.0	1,104.3	1,070.4	33.89	32.582		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 32A-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,600.0	4,399.5	4,397.0	4,282.7	23.5	18.0	-137.73	688.3	-337.1	1,136.2	1,101.3	34.90	32.560			
4,700.0	4,496.6	4,492.3	4,374.1	23.9	18.5	-137.81	712.3	-349.4	1,164.5	1,128.7	35.86	32.476			
4,800.0	4,594.8	4,588.3	4,466.1	24.3	19.1	-137.65	736.6	-361.8	1,189.2	1,152.4	36.77	32.343			
4,900.0	4,693.8	4,684.6	4,558.5	24.5	19.6	-137.29	760.9	-374.2	1,210.3	1,172.7	37.62	32.172			
5,000.0	4,793.4	4,780.9	4,650.9	24.7	20.2	-136.71	785.2	-386.6	1,227.9	1,189.5	38.41	31.973			
5,100.0	4,893.4	4,877.1	4,743.1	24.9	20.7	-135.94	809.5	-399.0	1,242.2	1,203.1	39.12	31.755			
5,113.6	4,907.0	4,890.2	4,755.6	24.9	20.8	-92.53	812.8	-400.7	1,243.9	1,204.7	39.21	31.724			
5,200.0	4,993.4	4,973.0	4,835.1	24.9	21.3	-91.55	833.7	-411.4	1,254.6	1,214.7	39.84	31.488			
5,300.0	5,093.4	5,068.9	4,927.0	25.0	21.8	-90.43	857.9	-423.7	1,267.4	1,226.9	40.57	31.244			
5,400.0	5,193.4	5,164.8	5,019.0	25.1	22.4	-89.33	882.2	-436.1	1,280.8	1,239.5	41.27	31.031			
5,500.0	5,293.4	5,274.2	5,124.0	25.2	23.0	-88.12	909.5	-450.0	1,294.6	1,252.5	42.02	30.806			
5,600.0	5,393.4	5,436.9	5,282.9	25.3	23.6	-86.77	940.6	-465.9	1,305.4	1,262.6	42.78	30.513			
5,700.0	5,493.4	5,605.3	5,450.0	25.4	24.0	-86.04	957.9	-474.8	1,311.3	1,268.0	43.33	30.266			
5,800.0	5,593.4	5,748.7	5,593.4	25.5	24.2	-85.91	960.9	-476.3	1,312.3	1,268.7	43.64	30.075			
5,900.0	5,693.4	5,848.7	5,693.4	25.6	24.3	-85.91	960.9	-476.3	1,312.3	1,268.5	43.87	29.916			
6,000.0	5,793.4	5,948.7	5,793.4	25.7	24.4	-85.91	960.9	-476.3	1,312.3	1,268.2	44.11	29.754			
6,100.0	5,893.4	6,048.7	5,893.4	25.8	24.5	-85.91	960.9	-476.3	1,312.3	1,268.0	44.35	29.591			
6,200.0	5,993.4	6,148.7	5,993.4	26.0	24.6	-85.91	960.9	-476.3	1,312.3	1,267.7	44.59	29.428			
6,300.0	6,093.4	6,248.7	6,093.4	26.1	24.7	-85.91	960.9	-476.3	1,312.3	1,267.5	44.84	29.265			
6,400.0	6,193.4	6,348.7	6,193.4	26.2	24.8	-85.91	960.9	-476.3	1,312.3	1,267.2	45.10	29.101			
6,500.0	6,293.4	6,448.7	6,293.4	26.3	25.0	-85.91	960.9	-476.3	1,312.3	1,267.0	45.35	28.938			
6,600.0	6,393.4	6,548.7	6,393.4	26.4	25.1	-85.91	960.9	-476.3	1,312.3	1,266.7	45.61	28.774			
6,700.0	6,493.4	6,648.7	6,493.4	26.5	25.2	-85.91	960.9	-476.3	1,312.3	1,266.5	45.87	28.610			
6,800.0	6,593.4	6,748.7	6,593.4	26.6	25.3	-85.91	960.9	-476.3	1,312.3	1,266.2	46.13	28.447			
6,900.0	6,693.4	6,848.7	6,693.4	26.7	25.4	-85.91	960.9	-476.3	1,312.3	1,265.9	46.40	28.283			
7,000.0	6,793.4	6,948.7	6,793.4	26.9	25.6	-85.91	960.9	-476.3	1,312.3	1,265.7	46.67	28.120			
7,100.0	6,893.4	7,048.7	6,893.4	27.0	25.7	-85.91	960.9	-476.3	1,312.3	1,265.4	46.94	27.957			
7,200.0	6,993.4	7,148.7	6,993.4	27.1	25.8	-85.91	960.9	-476.3	1,312.3	1,265.1	47.22	27.794			
7,300.0	7,093.4	7,248.7	7,093.4	27.2	26.0	-85.91	960.9	-476.3	1,312.3	1,264.8	47.49	27.631			
7,400.0	7,193.4	7,348.7	7,193.4	27.4	26.1	-85.91	960.9	-476.3	1,312.3	1,264.6	47.77	27.469			
7,500.0	7,293.4	7,448.7	7,293.4	27.5	26.2	-85.91	960.9	-476.3	1,312.3	1,264.3	48.06	27.308			
7,598.6	7,392.0	7,547.3	7,392.0	27.6	26.3	-85.91	960.9	-476.3	1,312.3	1,264.0	48.34	27.149			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 32B-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-80.0	-0.3	80.0								
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-80.0	-0.3	80.0	79.8	0.19	428.711					
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-80.0	-0.3	80.0	79.3	0.64	125.735					
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-80.0	-0.3	80.0	78.9	1.09	73.671					
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-80.0	-0.3	80.0	78.4	1.54	52.098					
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-80.0	-0.3	80.0	78.0	1.98	40.298					
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-80.0	-0.3	80.0	77.5	2.43	32.856					
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-80.0	-0.3	80.0	77.1	2.88	27.734					
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-80.0	-0.3	80.0	76.6	3.33	23.994					
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-80.0	-0.3	80.0	76.2	3.78	21.143					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-80.0	-0.3	80.0	75.7	4.23	18.897					
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-80.0	-0.3	80.0	75.4	4.57	17.503	CC				
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	100.36	-80.0	-0.3	80.0	75.3	4.68	17.101	ES				
1,175.0	1,174.9	1,174.9	1,174.9	2.5	2.5	102.34	-80.0	-0.3	80.6	75.6	5.00	16.112					
1,200.0	1,199.9	1,199.9	1,199.9	2.5	2.6	111.66	-80.0	-0.3	81.1	76.0	5.11	15.863					
1,300.0	1,299.4	1,299.4	1,299.4	2.8	2.8	132.94	-80.0	-0.3	86.7	81.2	5.56	15.609	SF				
1,400.0	1,398.1	1,401.5	1,401.4	3.0	3.0	146.50	-77.7	-1.8	97.0	91.0	5.99	16.188					
1,500.0	1,495.8	1,502.3	1,501.9	3.3	3.2	158.61	-71.1	-6.2	111.7	105.3	6.40	17.453					
1,600.0	1,591.9	1,601.1	1,599.8	3.7	3.5	169.52	-60.2	-13.4	132.4	125.6	6.78	19.523					
1,693.3	1,680.0	1,691.1	1,688.4	4.1	3.7	178.32	-46.7	-22.4	157.8	150.7	7.13	22.124					
1,700.0	1,686.3	1,697.5	1,694.6	4.2	3.7	178.83	-45.6	-23.1	159.8	152.7	7.16	22.311					
1,800.0	1,779.8	1,792.0	1,786.5	4.7	4.0	-174.26	-27.5	-35.1	191.2	183.5	7.70	24.829					
1,900.0	1,873.2	1,884.5	1,875.9	5.3	4.4	-168.67	-7.5	-48.4	224.2	215.9	8.31	26.968					
2,000.0	1,966.7	1,976.8	1,965.1	5.9	4.7	-164.49	12.5	-61.6	258.6	249.6	8.99	28.769					
2,100.0	2,060.2	2,069.2	2,054.3	6.5	5.1	-161.28	32.5	-74.9	294.1	284.3	9.71	30.269					
2,200.0	2,153.6	2,161.6	2,143.5	7.2	5.5	-158.75	52.5	-88.1	330.1	319.6	10.49	31.484					
2,300.0	2,247.1	2,253.9	2,232.7	7.8	6.0	-156.72	72.4	-101.3	366.7	355.4	11.28	32.494					
2,400.0	2,340.6	2,346.3	2,321.9	8.5	6.4	-155.05	92.4	-114.6	403.5	391.4	12.11	33.328					
2,500.0	2,434.0	2,438.7	2,411.1	9.2	6.8	-153.66	112.4	-127.8	440.6	427.7	12.95	34.023					
2,600.0	2,527.5	2,531.0	2,500.3	9.9	7.3	-152.48	132.3	-141.1	477.9	464.1	13.81	34.607					
2,700.0	2,620.9	2,623.4	2,589.5	10.5	7.7	-151.48	152.3	-154.3	515.4	500.7	14.68	35.101					
2,800.0	2,714.4	2,715.7	2,678.7	11.2	8.2	-150.61	172.3	-167.5	553.0	537.4	15.57	35.523					
2,900.0	2,807.9	2,808.1	2,767.9	11.9	8.6	-149.84	192.3	-180.8	590.6	574.2	16.46	35.887					
3,000.0	2,901.3	2,900.5	2,857.1	12.6	9.1	-149.17	212.2	-194.0	628.4	611.0	17.36	36.201					
3,100.0	2,994.8	2,992.8	2,946.3	13.3	9.6	-148.58	232.2	-207.3	666.2	647.9	18.26	36.475					
3,200.0	3,088.3	3,085.2	3,035.5	14.0	10.1	-148.05	252.2	-220.5	704.1	684.9	19.18	36.716					
3,300.0	3,181.7	3,177.6	3,124.7	14.7	10.5	-147.57	272.2	-233.7	742.0	721.9	20.09	36.929					
3,400.0	3,275.2	3,269.9	3,213.9	15.4	11.0	-147.14	292.1	-247.0	779.9	758.9	21.01	37.118					
3,500.0	3,368.7	3,362.3	3,303.1	16.1	11.5	-146.75	312.1	-260.2	817.9	796.0	21.94	37.287					
3,600.0	3,462.1	3,454.7	3,392.3	16.8	12.0	-146.39	332.1	-273.5	855.9	833.1	22.86	37.438					
3,700.0	3,555.6	3,547.0	3,481.5	17.5	12.4	-146.07	352.1	-286.7	894.0	870.2	23.79	37.575					
3,800.0	3,649.0	3,639.4	3,570.7	18.2	12.9	-145.77	372.0	-300.0	932.0	907.3	24.72	37.699					
3,900.0	3,742.5	3,731.8	3,659.9	18.9	13.4	-145.49	392.0	-313.2	970.1	944.5	25.66	37.811					
4,000.0	3,836.0	3,824.1	3,749.1	19.6	13.9	-145.24	412.0	-326.4	1,008.2	981.6	26.59	37.913					
4,100.0	3,929.4	3,916.5	3,838.3	20.3	14.4	-145.00	432.0	-339.7	1,046.4	1,018.8	27.53	38.007					
4,200.0	4,022.9	4,008.9	3,927.5	21.0	14.9	-144.78	451.9	-352.9	1,084.5	1,056.0	28.47	38.093					
4,300.0	4,116.4	4,101.2	4,016.7	21.7	15.4	-144.58	471.9	-366.2	1,122.6	1,093.2	29.41	38.172					
4,400.0	4,209.8	4,193.6	4,105.9	22.4	15.8	-144.39	491.9	-379.4	1,160.8	1,130.4	30.35	38.244					
4,419.3	4,227.9	4,211.4	4,123.2	22.6	15.9	-144.35	495.7	-381.9	1,168.2	1,137.6	30.53	38.258					
4,500.0	4,303.9	4,286.4	4,195.6	23.1	16.3	-144.71	512.0	-392.7	1,197.7	1,166.3	31.37	38.178					
4,600.0	4,399.5	4,380.5	4,286.5	23.5	16.8	-144.95	532.3	-406.2	1,230.7	1,198.3	32.34	38.058					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 32B-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,700.0	4,496.6	4,475.7	4,378.4	23.9	17.3	-144.98	552.9	-419.8	1,259.6	1,226.4	33.26	37.876			
4,800.0	4,594.8	4,571.6	4,471.0	24.3	17.9	-144.82	573.6	-433.6	1,284.6	1,250.5	34.12	37.647			
4,900.0	4,693.8	4,696.5	4,592.4	24.5	18.4	-144.39	598.1	-449.8	1,304.7	1,269.7	34.95	37.335			
5,000.0	4,793.4	4,830.4	4,724.3	24.7	18.8	-143.99	617.1	-462.4	1,318.1	1,282.5	35.58	37.044			
5,100.0	4,893.4	4,966.9	4,860.1	24.9	19.1	-143.68	628.4	-469.9	1,324.7	1,288.7	36.02	36.774			
5,113.6	4,907.0	4,985.6	4,878.8	24.9	19.1	-100.35	629.3	-470.5	1,325.1	1,289.0	36.07	36.736			
5,200.0	4,993.4	5,100.3	4,993.4	24.9	19.3	-100.24	631.6	-472.0	1,325.9	1,289.5	36.34	36.481			
5,300.0	5,093.4	5,200.3	5,093.4	25.0	19.4	-100.24	631.6	-472.0	1,325.9	1,289.3	36.60	36.229			
5,400.0	5,193.4	5,300.3	5,193.4	25.1	19.5	-100.24	631.6	-472.0	1,325.9	1,289.0	36.85	35.977			
5,500.0	5,293.4	5,400.3	5,293.4	25.2	19.6	-100.24	631.6	-472.0	1,325.9	1,288.7	37.11	35.725			
5,600.0	5,393.4	5,500.3	5,393.4	25.3	19.8	-100.24	631.6	-472.0	1,325.9	1,288.5	37.38	35.474			
5,700.0	5,493.4	5,600.3	5,493.4	25.4	19.9	-100.24	631.6	-472.0	1,325.9	1,288.2	37.64	35.222			
5,800.0	5,593.4	5,700.3	5,593.4	25.5	20.0	-100.24	631.6	-472.0	1,325.9	1,287.9	37.91	34.971			
5,900.0	5,693.4	5,800.3	5,693.4	25.6	20.2	-100.24	631.6	-472.0	1,325.9	1,287.7	38.19	34.720			
6,000.0	5,793.4	5,900.3	5,793.4	25.7	20.3	-100.24	631.6	-472.0	1,325.9	1,287.4	38.46	34.470			
6,100.0	5,893.4	6,000.3	5,893.4	25.8	20.4	-100.24	631.6	-472.0	1,325.9	1,287.1	38.74	34.221			
6,200.0	5,993.4	6,100.3	5,993.4	26.0	20.6	-100.24	631.6	-472.0	1,325.9	1,286.8	39.03	33.972			
6,300.0	6,093.4	6,200.3	6,093.4	26.1	20.7	-100.24	631.6	-472.0	1,325.9	1,286.5	39.31	33.725			
6,400.0	6,193.4	6,300.3	6,193.4	26.2	20.9	-100.24	631.6	-472.0	1,325.9	1,286.2	39.60	33.478			
6,500.0	6,293.4	6,400.3	6,293.4	26.3	21.0	-100.24	631.6	-472.0	1,325.9	1,286.0	39.90	33.233			
6,600.0	6,393.4	6,500.3	6,393.4	26.4	21.2	-100.24	631.6	-472.0	1,325.9	1,285.7	40.19	32.988			
6,700.0	6,493.4	6,600.3	6,493.4	26.5	21.3	-100.24	631.6	-472.0	1,325.9	1,285.4	40.49	32.745			
6,800.0	6,593.4	6,700.3	6,593.4	26.6	21.4	-100.24	631.6	-472.0	1,325.9	1,285.1	40.79	32.504			
6,900.0	6,693.4	6,800.3	6,693.4	26.7	21.6	-100.24	631.6	-472.0	1,325.9	1,284.8	41.09	32.264			
7,000.0	6,793.4	6,900.3	6,793.4	26.9	21.7	-100.24	631.6	-472.0	1,325.9	1,284.5	41.40	32.025			
7,100.0	6,893.4	7,000.3	6,893.4	27.0	21.9	-100.24	631.6	-472.0	1,325.9	1,284.1	41.71	31.788			
7,200.0	6,993.4	7,100.3	6,993.4	27.1	22.1	-100.24	631.6	-472.0	1,325.9	1,283.8	42.02	31.552			
7,300.0	7,093.4	7,200.3	7,093.4	27.2	22.2	-100.24	631.6	-472.0	1,325.9	1,283.5	42.34	31.318			
7,400.0	7,193.4	7,300.3	7,193.4	27.4	22.4	-100.24	631.6	-472.0	1,325.9	1,283.2	42.65	31.085			
7,500.0	7,293.4	7,400.3	7,293.4	27.5	22.5	-100.24	631.6	-472.0	1,325.9	1,282.9	42.97	30.855			
7,598.6	7,392.0	7,498.9	7,392.0	27.6	22.7	-100.24	631.6	-472.0	1,325.9	1,282.6	43.29	30.629			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 32C-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-110.0	-0.4	110.0								
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-110.0	-0.4	110.0	109.8	0.19	589.478					
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-110.0	-0.4	110.0	109.3	0.64	172.886					
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-110.0	-0.4	110.0	108.9	1.09	101.298					
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-110.0	-0.4	110.0	108.4	1.54	71.635					
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-110.0	-0.4	110.0	108.0	1.98	55.410					
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-110.0	-0.4	110.0	107.5	2.43	45.177					
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-110.0	-0.4	110.0	107.1	2.88	38.135					
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-110.0	-0.4	110.0	106.6	3.33	32.992					
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-110.0	-0.4	110.0	106.2	3.78	29.071					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-110.0	-0.4	110.0	105.7	4.23	25.983					
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-110.0	-0.4	110.0	105.4	4.57	24.066	CC				
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	100.33	-110.0	-0.4	110.0	105.3	4.68	23.510	ES				
1,175.0	1,174.9	1,174.9	1,174.9	2.5	2.5	101.77	-110.0	-0.4	110.6	105.6	5.00	22.106					
1,200.0	1,199.9	1,199.9	1,199.9	2.5	2.6	110.78	-110.0	-0.4	111.0	105.9	5.11	21.724					
1,300.0	1,299.4	1,299.4	1,299.4	2.8	2.8	130.67	-110.0	-0.4	116.5	110.9	5.56	20.954	SF				
1,400.0	1,398.1	1,398.1	1,398.1	3.0	3.0	141.58	-110.0	-0.4	127.9	121.9	6.00	21.321					
1,500.0	1,495.8	1,495.8	1,495.8	3.3	3.2	149.50	-110.0	-0.4	145.8	139.4	6.43	22.682					
1,600.0	1,591.9	1,591.9	1,591.9	3.7	3.4	155.64	-110.0	-0.4	170.3	163.5	6.84	24.901					
1,693.3	1,680.0	1,680.0	1,680.0	4.1	3.6	160.12	-110.0	-0.4	199.0	191.8	7.20	27.628					
1,700.0	1,686.3	1,686.3	1,686.3	4.2	3.7	160.35	-110.0	-0.4	201.3	194.0	7.23	27.822					
1,800.0	1,779.8	1,779.8	1,779.8	4.7	3.9	163.24	-110.0	-0.4	235.3	227.6	7.70	30.542					
1,900.0	1,873.2	1,875.3	1,875.3	5.3	4.1	165.78	-109.0	-1.6	269.4	261.2	8.17	32.958					
2,000.0	1,966.7	1,971.0	1,970.8	5.9	4.3	168.67	-104.9	-6.2	303.1	294.5	8.63	35.115					
2,100.0	2,060.2	2,065.7	2,064.9	6.5	4.5	171.79	-97.8	-14.3	336.9	327.8	9.09	37.060					
2,200.0	2,153.6	2,159.0	2,156.9	7.2	4.7	175.04	-87.8	-25.7	371.1	361.5	9.56	38.802					
2,300.0	2,247.1	2,250.5	2,246.4	7.8	5.0	178.34	-75.2	-40.1	406.2	396.2	10.07	40.358					
2,400.0	2,340.6	2,341.4	2,335.0	8.5	5.3	-178.74	-61.9	-55.2	442.5	431.9	10.61	41.692					
2,500.0	2,434.0	2,432.3	2,423.6	9.2	5.6	-176.24	-48.7	-70.2	479.6	468.4	11.19	42.856					
2,600.0	2,527.5	2,523.1	2,512.3	9.9	5.9	-174.10	-35.4	-85.3	517.4	505.6	11.81	43.816					
2,700.0	2,620.9	2,614.0	2,600.9	10.5	6.2	-172.23	-22.2	-100.4	555.8	543.4	12.45	44.646					
2,800.0	2,714.4	2,704.9	2,689.5	11.2	6.6	-170.61	-8.9	-115.5	594.7	581.6	13.11	45.346					
2,900.0	2,807.9	2,795.8	2,778.2	11.9	6.9	-169.18	4.4	-130.6	633.9	620.1	13.80	45.939					
3,000.0	2,901.3	2,886.7	2,866.8	12.6	7.3	-167.91	17.6	-145.7	673.4	658.9	14.50	46.442					
3,100.0	2,994.8	2,977.5	2,955.4	13.3	7.6	-166.78	30.9	-160.8	713.1	697.9	15.21	46.872					
3,200.0	3,088.3	3,068.4	3,044.1	14.0	8.0	-165.77	44.1	-175.9	753.1	737.2	15.94	47.241					
3,300.0	3,181.7	3,159.3	3,132.7	14.7	8.4	-164.86	57.4	-191.0	793.3	776.6	16.68	47.558					
3,400.0	3,275.2	3,250.2	3,221.3	15.4	8.8	-164.03	70.6	-206.1	833.6	816.2	17.43	47.833					
3,500.0	3,368.7	3,341.0	3,309.9	16.1	9.2	-163.28	83.9	-221.2	874.0	855.8	18.18	48.073					
3,600.0	3,462.1	3,431.9	3,398.6	16.8	9.6	-162.60	97.1	-236.3	914.6	895.6	18.94	48.282					
3,700.0	3,555.6	3,522.8	3,487.2	17.5	10.0	-161.97	110.4	-251.4	955.2	935.5	19.71	48.466					
3,800.0	3,649.0	3,613.7	3,575.8	18.2	10.3	-161.40	123.7	-266.4	996.0	975.5	20.48	48.628					
3,900.0	3,742.5	3,704.6	3,664.5	18.9	10.8	-160.87	136.9	-281.5	1,036.8	1,015.6	21.26	48.771					
4,000.0	3,836.0	3,795.4	3,753.1	19.6	11.2	-160.38	150.2	-296.6	1,077.7	1,055.7	22.04	48.899					
4,100.0	3,929.4	3,886.3	3,841.7	20.3	11.6	-159.92	163.4	-311.7	1,118.7	1,095.8	22.82	49.012					
4,200.0	4,022.9	3,977.2	3,930.4	21.0	12.0	-159.50	176.7	-326.8	1,159.7	1,136.1	23.61	49.114					
4,300.0	4,116.4	4,068.1	4,019.0	21.7	12.4	-159.10	189.9	-341.9	1,200.7	1,176.3	24.40	49.206					
4,400.0	4,209.8	4,159.0	4,107.6	22.4	12.8	-158.73	203.2	-357.0	1,241.8	1,216.6	25.20	49.288					
4,419.3	4,227.9	4,176.5	4,124.7	22.6	12.9	-158.67	205.7	-359.9	1,249.8	1,224.4	25.35	49.303					
4,500.0	4,303.9	4,250.4	4,196.8	23.1	13.2	-158.74	216.5	-372.2	1,281.5	1,255.4	26.10	49.100					
4,600.0	4,399.5	4,343.5	4,287.6	23.5	13.6	-158.71	230.1	-387.7	1,316.8	1,289.9	26.96	48.836					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 32C-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	4,438.0	4,379.7	23.9	14.1	-158.56	243.9	-403.3	1,347.6	1,319.9	27.78	48.518		
4,800.0	4,594.8	4,533.6	4,473.0	24.3	14.5	-158.30	257.8	-419.2	1,373.9	1,345.3	28.53	48.157		
4,900.0	4,693.8	4,632.3	4,569.3	24.5	14.9	-157.91	272.2	-435.6	1,395.5	1,366.3	29.22	47.751		
5,000.0	4,793.4	4,773.3	4,707.9	24.7	15.4	-157.31	289.1	-454.8	1,410.9	1,381.0	29.90	47.192		
5,100.0	4,893.4	4,917.9	4,851.6	24.9	15.8	-156.90	299.3	-466.4	1,418.5	1,388.1	30.35	46.741		
5,113.6	4,907.0	4,937.7	4,871.4	24.9	15.8	-113.57	300.1	-467.4	1,418.9	1,388.5	30.39	46.689		
5,200.0	4,993.4	5,059.7	4,993.4	24.9	16.0	-113.45	302.3	-469.8	1,419.9	1,389.1	30.72	46.224		
5,300.0	5,093.4	5,159.7	5,093.4	25.0	16.1	-113.45	302.3	-469.8	1,419.9	1,388.8	31.01	45.783		
5,400.0	5,193.4	5,259.7	5,193.4	25.1	16.3	-113.45	302.3	-469.8	1,419.9	1,388.5	31.32	45.338		
5,500.0	5,293.4	5,359.7	5,293.4	25.2	16.4	-113.45	302.3	-469.8	1,419.9	1,388.2	31.63	44.896		
5,600.0	5,393.4	5,459.7	5,393.4	25.3	16.6	-113.45	302.3	-469.8	1,419.9	1,387.9	31.94	44.459		
5,700.0	5,493.4	5,559.7	5,493.4	25.4	16.8	-113.45	302.3	-469.8	1,419.9	1,387.6	32.25	44.025		
5,800.0	5,593.4	5,659.7	5,593.4	25.5	16.9	-113.45	302.3	-469.8	1,419.9	1,387.3	32.57	43.595		
5,900.0	5,693.4	5,759.7	5,693.4	25.6	17.1	-113.45	302.3	-469.8	1,419.9	1,387.0	32.89	43.170		
6,000.0	5,793.4	5,859.7	5,793.4	25.7	17.2	-113.45	302.3	-469.8	1,419.9	1,386.6	33.21	42.749		
6,100.0	5,893.4	5,959.7	5,893.4	25.8	17.4	-113.45	302.3	-469.8	1,419.9	1,386.3	33.54	42.332		
6,200.0	5,993.4	6,059.7	5,993.4	26.0	17.6	-113.45	302.3	-469.8	1,419.9	1,386.0	33.87	41.921		
6,300.0	6,093.4	6,159.7	6,093.4	26.1	17.7	-113.45	302.3	-469.8	1,419.9	1,385.6	34.20	41.513		
6,400.0	6,193.4	6,259.7	6,193.4	26.2	17.9	-113.45	302.3	-469.8	1,419.9	1,385.3	34.54	41.111		
6,500.0	6,293.4	6,359.7	6,293.4	26.3	18.1	-113.45	302.3	-469.8	1,419.9	1,385.0	34.87	40.713		
6,600.0	6,393.4	6,459.7	6,393.4	26.4	18.2	-113.45	302.3	-469.8	1,419.9	1,384.6	35.21	40.320		
6,700.0	6,493.4	6,559.7	6,493.4	26.5	18.4	-113.45	302.3	-469.8	1,419.9	1,384.3	35.56	39.931		
6,800.0	6,593.4	6,659.7	6,593.4	26.6	18.6	-113.45	302.3	-469.8	1,419.9	1,383.9	35.90	39.548		
6,900.0	6,693.4	6,759.7	6,693.4	26.7	18.8	-113.45	302.3	-469.8	1,419.9	1,383.6	36.25	39.169		
7,000.0	6,793.4	6,859.7	6,793.4	26.9	18.9	-113.45	302.3	-469.8	1,419.9	1,383.3	36.60	38.795		
7,100.0	6,893.4	6,959.7	6,893.4	27.0	19.1	-113.45	302.3	-469.8	1,419.9	1,382.9	36.95	38.426		
7,200.0	6,993.4	7,059.7	6,993.4	27.1	19.3	-113.45	302.3	-469.8	1,419.9	1,382.5	37.30	38.062		
7,300.0	7,093.4	7,159.7	7,093.4	27.2	19.5	-113.45	302.3	-469.8	1,419.9	1,382.2	37.66	37.703		
7,400.0	7,193.4	7,259.7	7,193.4	27.4	19.6	-113.45	302.3	-469.8	1,419.9	1,381.8	38.02	37.348		
7,500.0	7,293.4	7,359.7	7,293.4	27.5	19.8	-113.45	302.3	-469.8	1,419.9	1,381.5	38.38	36.998		
7,598.6	7,392.0	7,458.4	7,392.0	27.6	20.0	-113.45	302.3	-469.8	1,419.9	1,381.1	38.73	36.658		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Valley Farms G - Valley Farms G 32D-14-06-92 - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-130.0	-0.5	130.0					
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-130.0	-0.5	130.0	129.8	0.19	696.655		
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-130.0	-0.5	130.0	129.3	0.64	204.319		
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-130.0	-0.5	130.0	128.9	1.09	119.715		
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-130.0	-0.5	130.0	128.4	1.54	84.659		
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-130.0	-0.5	130.0	128.0	1.98	65.484		
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-130.0	-0.5	130.0	127.5	2.43	53.391		
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-130.0	-0.5	130.0	127.1	2.88	45.068		
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-130.0	-0.5	130.0	126.6	3.33	38.990		
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-130.0	-0.5	130.0	126.2	3.78	34.357		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-130.0	-0.5	130.0	125.7	4.23	30.708		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-130.0	-0.5	130.0	125.4	4.57	28.442 CC		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	100.31	-130.0	-0.5	130.0	125.3	4.68	27.784 ES		
1,175.0	1,174.9	1,174.9	1,174.9	2.5	2.5	101.53	-130.0	-0.5	130.5	125.5	5.00	26.102		
1,200.0	1,199.9	1,199.9	1,199.9	2.5	2.6	110.42	-130.0	-0.5	131.0	125.9	5.11	25.633		
1,300.0	1,299.4	1,299.4	1,299.4	2.8	2.8	129.71	-130.0	-0.5	136.3	130.8	5.56	24.530 SF		
1,400.0	1,398.1	1,398.1	1,398.1	3.0	3.0	140.01	-130.0	-0.5	147.6	141.6	6.00	24.584		
1,500.0	1,495.8	1,495.8	1,495.8	3.3	3.2	147.49	-130.0	-0.5	165.1	158.7	6.44	25.648		
1,600.0	1,591.9	1,591.9	1,591.9	3.7	3.4	153.40	-130.0	-0.5	189.1	182.3	6.86	27.589		
1,693.3	1,680.0	1,680.0	1,680.0	4.1	3.6	157.83	-130.0	-0.5	217.4	210.1	7.23	30.080		
1,700.0	1,686.3	1,686.3	1,686.3	4.2	3.7	158.06	-130.0	-0.5	219.6	212.3	7.26	30.257		
1,800.0	1,779.8	1,779.8	1,779.8	4.7	3.9	161.05	-130.0	-0.5	253.2	245.5	7.73	32.743		
1,900.0	1,873.2	1,873.2	1,873.2	5.3	4.1	163.34	-130.0	-0.5	287.2	279.0	8.21	34.977		
2,000.0	1,966.7	1,966.7	1,966.7	5.9	4.3	165.15	-130.0	-0.5	321.6	312.9	8.70	36.982		
2,100.0	2,060.2	2,056.8	2,056.8	6.5	4.5	166.70	-129.8	-1.3	356.5	347.4	9.17	38.870		
2,200.0	2,153.6	2,143.5	2,143.4	7.2	4.7	168.49	-128.8	-5.8	393.0	383.4	9.63	40.807		
2,300.0	2,247.1	2,228.1	2,227.6	7.8	4.9	170.46	-127.1	-13.8	431.3	421.3	10.08	42.794		
2,400.0	2,340.6	2,310.3	2,309.0	8.5	5.0	172.53	-124.6	-25.1	471.8	461.2	10.53	44.810		
2,500.0	2,434.0	2,396.0	2,393.4	9.2	5.3	174.69	-121.4	-39.7	514.0	503.0	10.99	46.759		
2,600.0	2,527.5	2,484.8	2,480.7	9.9	5.5	176.63	-118.1	-55.1	557.0	545.5	11.48	48.527		
2,700.0	2,620.9	2,573.5	2,568.1	10.5	5.7	178.30	-114.7	-70.4	600.5	588.5	11.98	50.120		
2,800.0	2,714.4	2,662.3	2,655.4	11.2	6.0	179.75	-111.3	-85.8	644.3	631.8	12.50	51.540		
2,900.0	2,807.9	2,751.0	2,742.7	11.9	6.3	-178.99	-108.0	-101.1	688.4	675.4	13.03	52.829		
3,000.0	2,901.3	2,839.8	2,830.1	12.6	6.6	-177.87	-104.6	-116.5	732.7	719.2	13.57	53.985		
3,100.0	2,994.8	2,928.5	2,917.4	13.3	6.8	-176.88	-101.3	-131.8	777.3	763.2	14.13	55.026		
3,200.0	3,088.3	3,017.3	3,004.8	14.0	7.1	-175.99	-97.9	-147.2	822.0	807.3	14.69	55.965		
3,300.0	3,181.7	3,106.0	3,092.1	14.7	7.4	-175.20	-94.6	-162.5	866.9	851.6	15.26	56.815		
3,400.0	3,275.2	3,194.8	3,179.5	15.4	7.7	-174.48	-91.2	-177.9	911.9	896.0	15.84	57.585		
3,500.0	3,368.7	3,283.5	3,266.8	16.1	8.1	-173.83	-87.9	-193.3	957.0	940.6	16.42	58.284		
3,600.0	3,462.1	3,372.2	3,354.1	16.8	8.4	-173.24	-84.5	-208.6	1,002.2	985.1	17.01	58.921		
3,700.0	3,555.6	3,461.0	3,441.5	17.5	8.7	-172.69	-81.2	-224.0	1,047.4	1,029.8	17.60	59.503		
3,800.0	3,649.0	3,549.7	3,528.8	18.2	9.0	-172.20	-77.8	-239.3	1,092.8	1,074.6	18.20	60.037		
3,900.0	3,742.5	3,638.5	3,616.2	18.9	9.3	-171.74	-74.5	-254.7	1,138.1	1,119.3	18.80	60.527		
4,000.0	3,836.0	3,727.2	3,703.5	19.6	9.7	-171.32	-71.1	-270.0	1,183.6	1,164.2	19.41	60.978		
4,100.0	3,929.4	3,816.0	3,790.9	20.3	10.0	-170.92	-67.7	-285.4	1,229.1	1,209.1	20.02	61.394		
4,200.0	4,022.9	3,904.7	3,878.2	21.0	10.3	-170.56	-64.4	-300.7	1,274.6	1,254.0	20.63	61.778		
4,300.0	4,116.4	3,993.5	3,965.5	21.7	10.6	-170.22	-61.0	-316.1	1,320.2	1,299.0	21.25	62.134		
4,400.0	4,209.8	4,082.2	4,052.9	22.4	11.0	-169.90	-57.7	-331.5	1,365.8	1,343.9	21.87	62.464		
4,419.3	4,227.9	4,099.3	4,069.7	22.6	11.0	-169.84	-57.0	-334.4	1,374.6	1,352.6	21.99	62.525		
4,500.0	4,303.9	4,171.7	4,140.9	23.1	11.3	-169.80	-54.3	-346.9	1,409.9	1,387.3	22.62	62.341		
4,600.0	4,399.5	4,263.2	4,231.0	23.5	11.7	-169.70	-50.8	-362.8	1,449.5	1,426.2	23.33	62.130		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 32D-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	4,356.5	4,322.8	23.9	12.0	-169.55	-47.3	-378.9	1,484.4	1,460.4	23.98	61.888		
4,800.0	4,594.8	4,451.4	4,416.3	24.3	12.4	-169.34	-43.7	-395.3	1,514.4	1,489.8	24.58	61.623		
4,900.0	4,693.8	4,547.6	4,510.9	24.5	12.7	-169.09	-40.1	-412.0	1,539.6	1,514.5	25.10	61.341		
5,000.0	4,793.4	4,644.9	4,606.7	24.7	13.1	-168.79	-36.4	-428.8	1,559.8	1,534.2	25.55	61.047		
5,100.0	4,893.4	4,815.1	4,774.9	24.9	13.6	-168.20	-30.9	-454.1	1,573.8	1,547.7	26.08	60.353		
5,113.6	4,907.0	4,846.0	4,805.6	24.9	13.7	-124.83	-30.2	-457.2	1,574.7	1,548.6	26.15	60.229		
5,200.0	4,993.4	5,034.1	4,993.4	24.9	14.0	-124.61	-28.4	-465.5	1,577.3	1,550.7	26.64	59.209		
5,300.0	5,093.4	5,134.1	5,093.4	25.0	14.2	-124.61	-28.4	-465.5	1,577.3	1,550.3	26.98	58.470		
5,400.0	5,193.4	5,234.1	5,193.4	25.1	14.4	-124.61	-28.4	-465.5	1,577.3	1,550.0	27.33	57.722		
5,500.0	5,293.4	5,334.1	5,293.4	25.2	14.5	-124.61	-28.4	-465.5	1,577.3	1,549.6	27.68	56.987		
5,600.0	5,393.4	5,434.1	5,393.4	25.3	14.7	-124.61	-28.4	-465.5	1,577.3	1,549.3	28.03	56.265		
5,700.0	5,493.4	5,534.1	5,493.4	25.4	14.9	-124.61	-28.4	-465.5	1,577.3	1,548.9	28.39	55.557		
5,800.0	5,593.4	5,634.1	5,593.4	25.5	15.1	-124.61	-28.4	-465.5	1,577.3	1,548.6	28.75	54.860		
5,900.0	5,693.4	5,734.1	5,693.4	25.6	15.3	-124.61	-28.4	-465.5	1,577.3	1,548.2	29.11	54.177		
6,000.0	5,793.4	5,834.1	5,793.4	25.7	15.4	-124.61	-28.4	-465.5	1,577.3	1,547.8	29.48	53.506		
6,100.0	5,893.4	5,934.1	5,893.4	25.8	15.6	-124.61	-28.4	-465.5	1,577.3	1,547.5	29.85	52.848		
6,200.0	5,993.4	6,034.1	5,993.4	26.0	15.8	-124.61	-28.4	-465.5	1,577.3	1,547.1	30.22	52.201		
6,300.0	6,093.4	6,134.1	6,093.4	26.1	16.0	-124.61	-28.4	-465.5	1,577.3	1,546.7	30.59	51.567		
6,400.0	6,193.4	6,234.1	6,193.4	26.2	16.2	-124.61	-28.4	-465.5	1,577.3	1,546.3	30.96	50.945		
6,500.0	6,293.4	6,334.1	6,293.4	26.3	16.4	-124.61	-28.4	-465.5	1,577.3	1,546.0	31.34	50.334		
6,600.0	6,393.4	6,434.1	6,393.4	26.4	16.5	-124.61	-28.4	-465.5	1,577.3	1,545.6	31.71	49.735		
6,700.0	6,493.4	6,534.1	6,493.4	26.5	16.7	-124.61	-28.4	-465.5	1,577.3	1,545.2	32.09	49.147		
6,800.0	6,593.4	6,634.1	6,593.4	26.6	16.9	-124.61	-28.4	-465.5	1,577.3	1,544.8	32.47	48.570		
6,900.0	6,693.4	6,734.1	6,693.4	26.7	17.1	-124.61	-28.4	-465.5	1,577.3	1,544.4	32.86	48.004		
7,000.0	6,793.4	6,834.1	6,793.4	26.9	17.3	-124.61	-28.4	-465.5	1,577.3	1,544.1	33.24	47.449		
7,100.0	6,893.4	6,934.1	6,893.4	27.0	17.5	-124.61	-28.4	-465.5	1,577.3	1,543.7	33.63	46.904		
7,200.0	6,993.4	7,034.1	6,993.4	27.1	17.7	-124.61	-28.4	-465.5	1,577.3	1,543.3	34.02	46.369		
7,300.0	7,093.4	7,134.1	7,093.4	27.2	17.9	-124.61	-28.4	-465.5	1,577.3	1,542.9	34.41	45.845		
7,400.0	7,193.4	7,234.1	7,193.4	27.4	18.1	-124.61	-28.4	-465.5	1,577.3	1,542.5	34.80	45.330		
7,500.0	7,293.4	7,334.1	7,293.4	27.5	18.3	-124.61	-28.4	-465.5	1,577.3	1,542.1	35.19	44.825		
7,598.6	7,392.0	7,432.7	7,392.0	27.6	18.4	-124.61	-28.4	-465.5	1,577.3	1,541.7	35.58	44.336		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 33A-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	-123.46	-14.9	-22.6	27.0								
100.0	100.0	100.0	100.0	0.1	0.1	-123.46	-14.9	-22.6	27.0	26.8	0.19	144.914					
200.0	200.0	200.0	200.0	0.3	0.3	-123.46	-14.9	-22.6	27.0	26.4	0.64	42.501					
300.0	300.0	300.0	300.0	0.5	0.5	-123.46	-14.9	-22.6	27.0	25.9	1.09	24.902					
400.0	400.0	400.0	400.0	0.8	0.8	-123.46	-14.9	-22.6	27.0	25.5	1.54	17.610					
500.0	500.0	500.0	500.0	1.0	1.0	-123.46	-14.9	-22.6	27.0	25.0	1.98	13.622					
600.0	600.0	600.0	600.0	1.2	1.2	-123.46	-14.9	-22.6	27.0	24.6	2.43	11.106					
700.0	700.0	700.0	700.0	1.4	1.4	-123.46	-14.9	-22.6	27.0	24.2	2.88	9.375					
800.0	800.0	800.0	800.0	1.7	1.7	-123.46	-14.9	-22.6	27.0	23.7	3.33	8.111					
900.0	900.0	900.0	900.0	1.9	1.9	-123.46	-14.9	-22.6	27.0	23.3	3.78	7.147					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-123.46	-14.9	-22.6	27.0	22.8	4.23	6.388					
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-123.46	-14.9	-22.6	27.0	22.5	4.57	5.916 CC, ES					
1,100.0	1,100.0	1,100.1	1,100.1	2.3	2.3	156.48	-15.0	-22.5	27.2	22.5	4.67	5.814 SF					
1,175.0	1,174.9	1,175.3	1,175.3	2.5	2.5	155.72	-15.9	-21.1	29.2	24.2	4.96	5.879					
1,200.0	1,199.9	1,200.4	1,200.4	2.5	2.5	163.27	-16.4	-20.3	30.4	25.3	5.06	6.005					
1,300.0	1,299.4	1,300.3	1,300.1	2.8	2.7	172.28	-19.9	-15.2	38.3	32.9	5.46	7.019					
1,400.0	1,398.1	1,399.3	1,398.6	3.0	2.9	169.44	-25.2	-7.4	52.2	46.4	5.87	8.893					
1,500.0	1,495.8	1,496.7	1,495.3	3.3	3.2	165.47	-32.0	2.5	73.1	66.8	6.31	11.586					
1,600.0	1,591.9	1,592.2	1,589.7	3.7	3.4	162.44	-40.2	14.0	100.8	94.0	6.76	14.903					
1,693.3	1,680.0	1,679.1	1,675.3	4.1	3.7	160.42	-49.0	26.1	132.6	125.4	7.21	18.378					
1,700.0	1,686.3	1,685.3	1,681.4	4.2	3.7	160.25	-49.7	27.0	135.1	127.8	7.25	18.623					
1,800.0	1,779.8	1,776.7	1,771.1	4.7	4.0	157.84	-60.3	41.5	172.6	164.8	7.87	21.939					
1,900.0	1,873.2	1,865.5	1,858.3	5.3	4.2	156.75	-71.2	53.9	211.5	203.0	8.46	24.998					
2,000.0	1,966.7	1,953.1	1,944.9	5.9	4.5	157.11	-81.6	61.4	251.9	242.9	9.01	27.949					
2,100.0	2,060.2	2,039.1	2,030.3	6.5	4.7	158.31	-91.6	64.2	293.9	284.4	9.54	30.821					
2,200.0	2,153.6	2,123.0	2,113.6	7.2	4.9	159.97	-101.0	62.6	337.6	327.6	10.01	33.725					
2,300.0	2,247.1	2,204.4	2,194.4	7.8	5.0	161.88	-109.8	57.0	383.3	372.8	10.45	36.679					
2,400.0	2,340.6	2,283.2	2,272.1	8.5	5.2	163.90	-118.0	47.8	431.1	420.2	10.85	39.718					
2,500.0	2,434.0	2,359.0	2,346.6	9.2	5.3	165.93	-125.6	35.3	481.1	469.8	11.24	42.818					
2,600.0	2,527.5	2,440.1	2,425.6	9.9	5.5	168.04	-133.5	19.3	532.9	521.3	11.61	45.909					
2,700.0	2,620.9	2,523.9	2,507.3	10.5	5.6	169.86	-141.7	2.6	585.4	573.4	11.99	48.830					
2,800.0	2,714.4	2,607.6	2,589.0	11.2	5.8	171.39	-149.8	-14.1	638.1	625.8	12.39	51.506					
2,900.0	2,807.9	2,691.4	2,670.7	11.9	6.1	172.69	-157.9	-30.8	691.2	678.4	12.81	53.955					
3,000.0	2,901.3	2,775.1	2,752.3	12.6	6.3	173.80	-166.1	-47.5	744.5	731.3	13.23	56.260					
3,100.0	2,994.8	2,858.9	2,834.0	13.3	6.6	174.77	-174.2	-64.2	798.0	784.3	13.67	58.375					
3,200.0	3,088.3	2,942.7	2,915.7	14.0	6.9	175.63	-182.4	-80.9	851.6	837.5	14.11	60.340					
3,300.0	3,181.7	3,026.4	2,997.4	14.7	7.2	176.38	-190.5	-97.6	905.3	890.8	14.57	62.123					
3,400.0	3,275.2	3,110.2	3,079.1	15.4	7.5	177.04	-198.6	-114.3	959.2	944.2	15.03	63.797					
3,500.0	3,368.7	3,194.0	3,160.7	16.1	7.8	177.64	-206.8	-131.0	1,013.1	997.6	15.50	65.341					
3,600.0	3,462.1	3,277.7	3,242.4	16.8	8.1	178.18	-214.9	-147.6	1,067.1	1,051.1	15.98	66.769					
3,700.0	3,555.6	3,361.5	3,324.1	17.5	8.4	178.66	-223.1	-164.3	1,121.2	1,104.7	16.46	68.097					
3,800.0	3,649.0	3,445.3	3,405.8	18.2	8.8	179.11	-231.2	-181.0	1,175.3	1,158.3	16.95	69.333					
3,900.0	3,742.5	3,529.0	3,487.5	18.9	9.1	179.51	-239.3	-197.7	1,229.4	1,212.0	17.44	70.486					
4,000.0	3,836.0	3,612.8	3,569.1	19.6	9.5	179.88	-247.5	-214.4	1,283.6	1,265.7	17.94	71.561					
4,100.0	3,929.4	3,696.6	3,650.8	20.3	9.8	-179.78	-255.6	-231.1	1,337.8	1,319.4	18.44	72.565					
4,200.0	4,022.9	3,780.3	3,732.5	21.0	10.2	-179.47	-263.8	-247.8	1,392.1	1,373.2	18.94	73.502					
4,300.0	4,116.4	3,864.1	3,814.2	21.7	10.6	-179.18	-271.9	-264.5	1,446.4	1,426.9	19.45	74.380					
4,400.0	4,209.8	3,947.8	3,895.9	22.4	10.9	-178.91	-280.0	-281.2	1,500.7	1,480.7	19.96	75.204					
4,419.3	4,227.9	3,964.0	3,911.6	22.6	11.0	-178.86	-281.6	-284.4	1,511.2	1,491.1	20.05	75.358					
4,500.0	4,303.9	4,032.5	3,978.4	23.1	11.3	-178.69	-288.3	-298.0	1,553.6	1,533.0	20.60	75.415					
4,600.0	4,399.5	4,119.8	4,063.5	23.5	11.7	-178.49	-296.8	-315.4	1,602.1	1,580.9	21.21	75.521					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 33A-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	4,209.4	4,150.9	23.9	12.1	-178.30	-305.5	-333.3	1,645.9	1,624.2	21.77	75.597		
4,800.0	4,594.8	4,301.2	4,240.5	24.3	12.5	-178.11	-314.4	-351.6	1,685.1	1,662.8	22.27	75.652		
4,900.0	4,693.8	4,395.0	4,331.8	24.5	12.9	-177.92	-323.5	-370.3	1,719.3	1,696.6	22.71	75.694		
5,000.0	4,793.4	4,490.3	4,424.8	24.7	13.4	-177.74	-332.8	-389.3	1,748.7	1,725.6	23.09	75.728		
5,100.0	4,893.4	4,587.1	4,519.2	24.9	13.8	-177.55	-342.2	-408.5	1,773.0	1,749.6	23.40	75.759		
5,113.6	4,907.0	4,600.4	4,532.1	24.9	13.9	-134.23	-343.5	-411.2	1,775.9	1,752.5	23.44	75.764		
5,200.0	4,993.4	5,066.0	4,993.4	24.9	15.1	-133.67	-367.7	-460.9	1,788.6	1,764.0	24.57	72.788		
5,300.0	5,093.4	5,166.0	5,093.4	25.0	15.2	-133.67	-367.7	-460.9	1,788.6	1,763.7	24.93	71.732		
5,400.0	5,193.4	5,266.0	5,193.4	25.1	15.4	-133.67	-367.7	-460.9	1,788.6	1,763.3	25.30	70.699		
5,500.0	5,293.4	5,366.0	5,293.4	25.2	15.5	-133.67	-367.7	-460.9	1,788.6	1,762.9	25.67	69.688		
5,600.0	5,393.4	5,466.0	5,393.4	25.3	15.7	-133.67	-367.7	-460.9	1,788.6	1,762.6	26.04	68.699		
5,700.0	5,493.4	5,566.0	5,493.4	25.4	15.8	-133.67	-367.7	-460.9	1,788.6	1,762.2	26.41	67.731		
5,800.0	5,593.4	5,666.0	5,593.4	25.5	16.0	-133.67	-367.7	-460.9	1,788.6	1,761.8	26.78	66.785		
5,900.0	5,693.4	5,766.0	5,693.4	25.6	16.1	-133.67	-367.7	-460.9	1,788.6	1,761.4	27.16	65.859		
6,000.0	5,793.4	5,866.0	5,793.4	25.7	16.3	-133.67	-367.7	-460.9	1,788.6	1,761.1	27.54	64.953		
6,100.0	5,893.4	5,966.0	5,893.4	25.8	16.5	-133.67	-367.7	-460.9	1,788.6	1,760.7	27.92	64.067		
6,200.0	5,993.4	6,066.0	5,993.4	26.0	16.6	-133.67	-367.7	-460.9	1,788.6	1,760.3	28.30	63.201		
6,300.0	6,093.4	6,166.0	6,093.4	26.1	16.8	-133.67	-367.7	-460.9	1,788.6	1,759.9	28.68	62.353		
6,400.0	6,193.4	6,266.0	6,193.4	26.2	16.9	-133.67	-367.7	-460.9	1,788.6	1,759.5	29.07	61.524		
6,500.0	6,293.4	6,366.0	6,293.4	26.3	17.1	-133.67	-367.7	-460.9	1,788.6	1,759.1	29.46	60.713		
6,600.0	6,393.4	6,466.0	6,393.4	26.4	17.3	-133.67	-367.7	-460.9	1,788.6	1,758.7	29.85	59.920		
6,700.0	6,493.4	6,566.0	6,493.4	26.5	17.4	-133.67	-367.7	-460.9	1,788.6	1,758.4	30.24	59.144		
6,800.0	6,593.4	6,666.0	6,593.4	26.6	17.6	-133.67	-367.7	-460.9	1,788.6	1,758.0	30.63	58.385		
6,900.0	6,693.4	6,766.0	6,693.4	26.7	17.8	-133.67	-367.7	-460.9	1,788.6	1,757.6	31.03	57.643		
7,000.0	6,793.4	6,866.0	6,793.4	26.9	18.0	-133.67	-367.7	-460.9	1,788.6	1,757.2	31.42	56.916		
7,100.0	6,893.4	6,966.0	6,893.4	27.0	18.1	-133.67	-367.7	-460.9	1,788.6	1,756.8	31.82	56.206		
7,200.0	6,993.4	7,066.0	6,993.4	27.1	18.3	-133.67	-367.7	-460.9	1,788.6	1,756.4	32.22	55.510		
7,300.0	7,093.4	7,166.0	7,093.4	27.2	18.5	-133.67	-367.7	-460.9	1,788.6	1,756.0	32.62	54.829		
7,400.0	7,193.4	7,266.0	7,193.4	27.4	18.7	-133.67	-367.7	-460.9	1,788.6	1,755.6	33.02	54.163		
7,500.0	7,293.4	7,366.0	7,293.4	27.5	18.8	-133.67	-367.7	-460.9	1,788.6	1,755.2	33.43	53.510		
7,598.6	7,392.0	7,464.6	7,392.0	27.6	19.0	-133.67	-367.7	-460.9	1,788.6	1,754.8	33.82	52.880		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 33B-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-153.21	-44.9	-22.7	50.3					
100.0	100.0	100.0	100.0	0.1	0.1	-153.21	-44.9	-22.7	50.3	50.1	0.19	269.615		
200.0	200.0	200.0	200.0	0.3	0.3	-153.21	-44.9	-22.7	50.3	49.7	0.64	79.074		
300.0	300.0	300.0	300.0	0.5	0.5	-153.21	-44.9	-22.7	50.3	49.2	1.09	46.331		
400.0	400.0	400.0	400.0	0.8	0.8	-153.21	-44.9	-22.7	50.3	48.8	1.54	32.764		
500.0	500.0	500.0	500.0	1.0	1.0	-153.21	-44.9	-22.7	50.3	48.3	1.98	25.343		
600.0	600.0	600.0	600.0	1.2	1.2	-153.21	-44.9	-22.7	50.3	47.9	2.43	20.663		
700.0	700.0	700.0	700.0	1.4	1.4	-153.21	-44.9	-22.7	50.3	47.4	2.88	17.442		
800.0	800.0	800.0	800.0	1.7	1.7	-153.21	-44.9	-22.7	50.3	47.0	3.33	15.090		
900.0	900.0	900.0	900.0	1.9	1.9	-153.21	-44.9	-22.7	50.3	46.5	3.78	13.297		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-153.21	-44.9	-22.7	50.3	46.1	4.23	11.884		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-153.21	-44.9	-22.7	50.3	45.7	4.57	11.007 CC, ES		
1,100.0	1,100.0	1,099.3	1,099.3	2.3	2.3	127.02	-45.0	-22.8	50.6	45.9	4.67	10.829 SF		
1,175.0	1,174.9	1,172.1	1,172.0	2.5	2.5	130.10	-46.9	-24.7	55.0	50.1	4.96	11.093		
1,200.0	1,199.9	1,197.0	1,196.9	2.5	2.5	140.12	-47.7	-25.9	57.5	52.5	5.07	11.356		
1,300.0	1,299.4	1,295.3	1,294.8	2.8	2.7	164.73	-48.7	-33.7	72.1	66.6	5.50	13.118		
1,400.0	1,398.1	1,390.9	1,389.7	3.0	3.0	179.51	-46.5	-45.9	95.0	89.0	5.91	16.055		
1,500.0	1,495.8	1,482.7	1,480.3	3.3	3.2	-171.60	-43.5	-60.5	126.6	120.3	6.31	20.068		
1,600.0	1,591.9	1,571.3	1,567.8	3.7	3.4	-168.33	-45.1	-73.8	166.2	159.6	6.66	24.948		
1,693.3	1,680.0	1,650.0	1,645.5	4.1	3.6	-167.74	-50.5	-85.0	209.7	202.7	6.98	30.040		
1,700.0	1,686.3	1,655.5	1,650.9	4.2	3.6	-167.87	-51.0	-85.7	213.0	206.0	7.01	30.401		
1,800.0	1,779.8	1,736.1	1,730.2	4.7	3.8	-169.81	-60.6	-96.3	264.0	256.6	7.42	35.605		
1,900.0	1,873.2	1,813.8	1,806.3	5.3	4.1	-171.83	-73.6	-105.7	317.2	309.3	7.83	40.503		
2,000.0	1,966.7	1,895.1	1,885.5	5.9	4.3	-173.80	-89.7	-115.0	371.9	363.7	8.25	45.069		
2,100.0	2,060.2	1,978.1	1,966.2	6.5	4.6	-175.32	-106.3	-124.5	427.0	418.3	8.68	49.169		
2,200.0	2,153.6	2,061.1	2,047.0	7.2	4.9	-176.49	-122.9	-134.0	482.2	473.1	9.13	52.839		
2,300.0	2,247.1	2,144.1	2,127.8	7.8	5.2	-177.42	-139.5	-143.4	537.6	528.0	9.58	56.133		
2,400.0	2,340.6	2,227.1	2,208.5	8.5	5.5	-178.18	-156.1	-152.9	593.0	583.0	10.04	59.050		
2,500.0	2,434.0	2,310.1	2,289.3	9.2	5.9	-178.81	-172.7	-162.4	648.5	638.0	10.51	61.714		
2,600.0	2,527.5	2,393.1	2,370.1	9.9	6.2	-179.35	-189.3	-171.9	704.0	693.1	10.98	64.098		
2,700.0	2,620.9	2,476.1	2,450.8	10.5	6.6	-179.80	-205.8	-181.3	759.6	748.2	11.47	66.249		
2,800.0	2,714.4	2,559.1	2,531.6	11.2	6.9	179.81	-222.4	-190.8	815.2	803.3	11.95	68.200		
2,900.0	2,807.9	2,642.1	2,612.4	11.9	7.3	179.47	-239.0	-200.3	870.8	858.4	12.44	69.977		
3,000.0	2,901.3	2,725.1	2,693.1	12.6	7.6	179.16	-255.6	-209.8	926.5	913.5	12.94	71.597		
3,100.0	2,994.8	2,808.1	2,773.9	13.3	8.0	178.90	-272.2	-219.2	982.1	968.7	13.44	73.079		
3,200.0	3,088.3	2,891.1	2,854.7	14.0	8.4	178.66	-288.8	-228.7	1,037.8	1,023.9	13.94	74.436		
3,300.0	3,181.7	2,974.1	2,935.4	14.7	8.8	178.44	-305.4	-238.2	1,093.5	1,079.1	14.45	75.681		
3,400.0	3,275.2	3,057.1	3,016.2	15.4	9.2	178.25	-322.0	-247.7	1,149.2	1,134.2	14.96	76.830		
3,500.0	3,368.7	3,140.1	3,097.0	16.1	9.5	178.07	-338.6	-257.1	1,204.9	1,189.4	15.47	77.892		
3,600.0	3,462.1	3,223.1	3,177.7	16.8	9.9	177.91	-355.2	-266.6	1,260.6	1,244.6	15.98	78.875		
3,700.0	3,555.6	3,306.1	3,258.5	17.5	10.3	177.77	-371.7	-276.1	1,316.3	1,299.8	16.50	79.787		
3,800.0	3,649.0	3,389.1	3,339.3	18.2	10.7	177.63	-388.3	-285.6	1,372.0	1,355.0	17.02	80.634		
3,900.0	3,742.5	3,472.1	3,420.0	18.9	11.1	177.51	-404.9	-295.0	1,427.8	1,410.2	17.54	81.422		
4,000.0	3,836.0	3,555.1	3,500.8	19.6	11.5	177.39	-421.5	-304.5	1,483.5	1,465.4	18.06	82.158		
4,100.0	3,929.4	3,638.1	3,581.6	20.3	11.9	177.29	-438.1	-314.0	1,539.2	1,520.6	18.58	82.846		
4,200.0	4,022.9	3,721.1	3,662.3	21.0	12.3	177.19	-454.7	-323.5	1,595.0	1,575.9	19.10	83.491		
4,300.0	4,116.4	3,804.1	3,743.1	21.7	12.7	177.10	-471.3	-332.9	1,650.7	1,631.1	19.63	84.095		
4,400.0	4,209.8	3,887.1	3,823.9	22.4	13.1	177.01	-487.9	-342.4	1,706.4	1,686.3	20.16	84.662		
4,419.3	4,227.9	3,903.1	3,839.5	22.6	13.2	176.99	-491.1	-344.3	1,717.2	1,696.9	20.26	84.768		
4,500.0	4,303.9	3,971.0	3,905.5	23.1	13.5	177.01	-504.6	-352.0	1,760.8	1,739.9	20.84	84.497		
4,600.0	4,399.5	4,057.6	3,989.8	23.5	13.9	177.01	-522.0	-361.9	1,810.7	1,789.2	21.49	84.253		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 33B-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
4,700.0	4,496.6	4,146.6	4,076.5	23.9	14.3	176.99	-539.8	-372.1	1,856.0	1,834.0	22.09	84.023					
4,800.0	4,494.8	4,238.0	4,165.3	24.3	14.8	176.96	-558.0	-382.5	1,896.7	1,874.1	22.63	83.812					
4,900.0	4,693.8	4,331.3	4,256.1	24.5	15.2	176.92	-576.7	-393.1	1,932.5	1,909.4	23.11	83.624					
5,000.0	4,793.4	4,426.3	4,348.6	24.7	15.7	176.86	-595.7	-404.0	1,963.4	1,939.9	23.52	83.463					
5,100.0	4,893.4	4,522.8	4,442.5	24.9	16.1	176.79	-614.9	-415.0	1,989.3	1,965.4	23.87	83.332					
5,113.6	4,907.0	4,536.0	4,455.4	24.9	16.2	-139.93	-617.6	-416.5	1,992.4	1,968.5	23.91	83.316					
5,200.0	4,993.4	4,620.1	4,537.2	24.9	16.6	-140.03	-634.4	-426.1	2,012.0	1,987.7	24.28	82.876					
5,300.0	5,093.4	5,181.8	5,093.4	25.0	18.1	-140.34	-688.4	-456.9	2,020.8	1,995.1	25.65	78.797					
5,400.0	5,193.4	5,281.8	5,193.4	25.1	18.2	-140.34	-688.4	-456.9	2,020.8	1,994.8	25.99	77.753					
5,500.0	5,293.4	5,381.8	5,293.4	25.2	18.3	-140.34	-688.4	-456.9	2,020.8	1,994.5	26.34	76.727					
5,600.0	5,393.4	5,481.8	5,393.4	25.3	18.4	-140.34	-688.4	-456.9	2,020.8	1,994.1	26.69	75.719					
5,700.0	5,493.4	5,581.8	5,493.4	25.4	18.5	-140.34	-688.4	-456.9	2,020.8	1,993.8	27.04	74.730					
5,800.0	5,593.4	5,681.8	5,593.4	25.5	18.7	-140.34	-688.4	-456.9	2,020.8	1,993.4	27.40	73.758					
5,900.0	5,693.4	5,781.8	5,693.4	25.6	18.8	-140.34	-688.4	-456.9	2,020.8	1,993.0	27.76	72.804					
6,000.0	5,793.4	5,881.8	5,793.4	25.7	18.9	-140.34	-688.4	-456.9	2,020.8	1,992.7	28.12	71.867					
6,100.0	5,893.4	5,981.8	5,893.4	25.8	19.0	-140.34	-688.4	-456.9	2,020.8	1,992.3	28.48	70.949					
6,200.0	5,993.4	6,081.8	5,993.4	26.0	19.2	-140.34	-688.4	-456.9	2,020.8	1,991.9	28.85	70.047					
6,300.0	6,093.4	6,181.8	6,093.4	26.1	19.3	-140.34	-688.4	-456.9	2,020.8	1,991.6	29.22	69.163					
6,400.0	6,193.4	6,281.8	6,193.4	26.2	19.4	-140.34	-688.4	-456.9	2,020.8	1,991.2	29.59	68.296					
6,500.0	6,293.4	6,381.8	6,293.4	26.3	19.6	-140.34	-688.4	-456.9	2,020.8	1,990.8	29.96	67.445					
6,600.0	6,393.4	6,481.8	6,393.4	26.4	19.7	-140.34	-688.4	-456.9	2,020.8	1,990.5	30.34	66.611					
6,700.0	6,493.4	6,581.8	6,493.4	26.5	19.8	-140.34	-688.4	-456.9	2,020.8	1,990.1	30.71	65.792					
6,800.0	6,593.4	6,681.8	6,593.4	26.6	20.0	-140.34	-688.4	-456.9	2,020.8	1,989.7	31.09	64.990					
6,900.0	6,693.4	6,781.8	6,693.4	26.7	20.1	-140.34	-688.4	-456.9	2,020.8	1,989.3	31.48	64.203					
7,000.0	6,793.4	6,881.8	6,793.4	26.9	20.3	-140.34	-688.4	-456.9	2,020.8	1,988.9	31.86	63.432					
7,100.0	6,893.4	6,981.8	6,893.4	27.0	20.4	-140.34	-688.4	-456.9	2,020.8	1,988.6	32.24	62.675					
7,200.0	6,993.4	7,081.8	6,993.4	27.1	20.6	-140.34	-688.4	-456.9	2,020.8	1,988.2	32.63	61.933					
7,300.0	7,093.4	7,181.8	7,093.4	27.2	20.7	-140.34	-688.4	-456.9	2,020.8	1,987.8	33.02	61.205					
7,400.0	7,193.4	7,281.8	7,193.4	27.4	20.9	-140.34	-688.4	-456.9	2,020.8	1,987.4	33.41	60.492					
7,500.0	7,293.4	7,381.8	7,293.4	27.5	21.0	-140.34	-688.4	-456.9	2,020.8	1,987.0	33.80	59.792					
7,598.6	7,392.0	7,480.4	7,392.0	27.6	21.2	-140.34	-688.4	-456.9	2,020.8	1,986.6	34.18	59.116					

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 33C-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
0.0	0.0	0.0	0.0	0.0	0.0	-160.68	-64.9	-22.8	68.8								
100.0	100.0	100.0	100.0	0.1	0.1	-160.68	-64.9	-22.8	68.8	68.6	0.19	368.606					
200.0	200.0	200.0	200.0	0.3	0.3	-160.68	-64.9	-22.8	68.8	68.1	0.64	108.107					
300.0	300.0	300.0	300.0	0.5	0.5	-160.68	-64.9	-22.8	68.8	67.7	1.09	63.342					
400.0	400.0	400.0	400.0	0.8	0.8	-160.68	-64.9	-22.8	68.8	67.2	1.54	44.794					
500.0	500.0	500.0	500.0	1.0	1.0	-160.68	-64.9	-22.8	68.8	66.8	1.98	34.648					
600.0	600.0	600.0	600.0	1.2	1.2	-160.68	-64.9	-22.8	68.8	66.3	2.43	28.250					
700.0	700.0	700.0	700.0	1.4	1.4	-160.68	-64.9	-22.8	68.8	65.9	2.88	23.846					
800.0	800.0	800.0	800.0	1.7	1.7	-160.68	-64.9	-22.8	68.8	65.4	3.33	20.630					
900.0	900.0	900.0	900.0	1.9	1.9	-160.68	-64.9	-22.8	68.8	65.0	3.78	18.178					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-160.68	-64.9	-22.8	68.8	64.5	4.23	16.248					
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-160.68	-64.9	-22.8	68.8	64.2	4.57	15.049	CC, ES				
1,100.0	1,100.0	1,099.6	1,099.6	2.3	2.3	119.43	-65.0	-22.8	68.9	64.3	4.67	14.760					
1,175.0	1,174.9	1,173.1	1,173.1	2.5	2.5	120.94	-66.2	-22.7	71.6	66.6	4.95	14.455	SF				
1,200.0	1,199.9	1,197.6	1,197.6	2.5	2.5	129.94	-67.0	-22.7	73.3	68.2	5.05	14.514					
1,300.0	1,299.4	1,295.3	1,295.1	2.8	2.7	148.61	-71.6	-22.5	85.3	79.9	5.45	15.658					
1,400.0	1,398.1	1,393.3	1,393.1	3.0	2.9	157.20	-77.1	-22.3	104.2	98.4	5.84	17.838					
1,500.0	1,495.8	1,490.1	1,489.6	3.3	3.1	162.42	-82.5	-22.1	129.2	122.9	6.23	20.749					
1,600.0	1,591.9	1,585.1	1,584.5	3.7	3.2	165.94	-87.8	-22.0	160.1	153.5	6.60	24.268					
1,693.3	1,680.0	1,671.8	1,671.1	4.1	3.4	168.28	-92.6	-21.8	194.1	187.2	6.93	28.013					
1,700.0	1,686.3	1,678.0	1,677.3	4.2	3.4	168.36	-93.0	-21.8	196.8	189.8	6.96	28.272					
1,800.0	1,779.8	1,769.9	1,769.0	4.7	3.6	169.33	-98.1	-21.6	236.0	228.6	7.41	31.859					
1,900.0	1,873.2	1,850.9	1,849.8	5.3	3.8	169.93	-103.9	-22.2	277.0	269.1	7.86	35.239					
2,000.0	1,966.7	1,928.2	1,926.7	5.9	4.0	170.31	-112.3	-24.3	321.7	313.4	8.32	38.654					
2,100.0	2,060.2	2,000.0	1,997.6	6.5	4.2	170.53	-122.4	-27.6	370.0	361.2	8.78	42.115					
2,200.0	2,153.6	2,073.5	2,069.9	7.2	4.4	170.68	-135.3	-32.3	421.5	412.2	9.26	45.521					
2,300.0	2,247.1	2,141.5	2,136.1	7.8	4.6	170.75	-149.3	-37.9	476.0	466.3	9.73	48.943					
2,400.0	2,340.6	2,200.0	2,192.7	8.5	4.9	170.77	-163.0	-43.6	533.5	523.4	10.18	52.424					
2,500.0	2,434.0	2,268.1	2,257.9	9.2	5.1	170.77	-180.8	-51.4	593.6	582.9	10.66	55.705					
2,600.0	2,527.5	2,326.9	2,313.7	9.9	5.4	170.74	-197.8	-59.0	656.2	645.1	11.12	59.024					
2,700.0	2,620.9	2,382.9	2,366.3	10.5	5.7	170.70	-215.4	-67.0	721.1	709.5	11.58	62.277					
2,800.0	2,714.4	2,444.2	2,423.2	11.2	6.0	170.65	-236.1	-76.6	788.0	775.9	12.06	65.360					
2,900.0	2,807.9	2,518.2	2,491.8	11.9	6.4	170.59	-261.2	-88.3	855.3	842.7	12.55	68.171					
3,000.0	2,901.3	2,592.1	2,560.3	12.6	6.9	170.54	-286.4	-100.0	922.6	909.6	13.04	70.768					
3,100.0	2,994.8	2,666.1	2,628.9	13.3	7.3	170.49	-311.6	-111.7	989.9	976.4	13.54	73.133					
3,200.0	3,088.3	2,740.0	2,697.4	14.0	7.8	170.45	-336.7	-123.5	1,057.2	1,043.2	14.04	75.316					
3,300.0	3,181.7	2,814.0	2,766.0	14.7	8.3	170.42	-361.9	-135.2	1,124.5	1,110.0	14.54	77.330					
3,400.0	3,275.2	2,888.0	2,834.5	15.4	8.8	170.39	-387.1	-146.9	1,191.8	1,176.8	15.05	79.183					
3,500.0	3,368.7	2,961.9	2,903.1	16.1	9.3	170.36	-412.3	-158.6	1,259.1	1,243.6	15.57	80.893					
3,600.0	3,462.1	3,035.9	2,971.6	16.8	9.8	170.34	-437.4	-170.3	1,326.4	1,310.3	16.08	82.482					
3,700.0	3,555.6	3,109.8	3,040.2	17.5	10.3	170.32	-462.6	-182.0	1,393.7	1,377.1	16.60	83.960					
3,800.0	3,649.0	3,183.8	3,108.7	18.2	10.8	170.30	-487.8	-193.7	1,461.0	1,443.9	17.12	85.330					
3,900.0	3,742.5	3,257.8	3,177.3	18.9	11.3	170.28	-512.9	-205.4	1,528.3	1,510.7	17.65	86.606					
4,000.0	3,836.0	3,331.7	3,245.8	19.6	11.9	170.26	-538.1	-217.1	1,595.6	1,577.5	18.17	87.800					
4,100.0	3,929.4	3,405.7	3,314.4	20.3	12.4	170.25	-563.3	-228.9	1,662.9	1,644.2	18.70	88.918					
4,200.0	4,022.9	3,479.6	3,382.9	21.0	12.9	170.24	-588.5	-240.6	1,730.2	1,711.0	19.23	89.961					
4,300.0	4,116.4	3,553.6	3,451.5	21.7	13.4	170.22	-613.6	-252.3	1,797.6	1,777.8	19.77	90.940					
4,400.0	4,209.8	3,627.6	3,520.0	22.4	14.0	170.21	-638.8	-264.0	1,864.9	1,844.6	20.30	91.862					
4,419.3	4,227.9	3,641.8	3,533.3	22.6	14.1	170.21	-643.7	-266.3	1,877.8	1,857.4	20.40	92.032					
4,500.0	4,303.9	3,702.6	3,589.6	23.1	14.5	170.54	-664.3	-275.9	1,930.9	1,909.9	20.99	92.011					
4,600.0	4,399.5	3,780.9	3,662.2	23.5	15.1	170.87	-691.0	-288.3	1,993.1	1,971.4	21.65	92.059					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 33C-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,700.0	4,496.6	3,862.3	3,737.6	23.9	15.6	171.13	-718.7	-301.2	2,051.1	2,028.8	22.27	92.089			
4,800.0	4,594.8	3,946.6	3,815.7	24.3	16.3	171.32	-747.4	-314.5	2,104.8	2,082.0	22.85	92.116			
4,900.0	4,693.8	4,033.5	3,896.3	24.5	16.9	171.45	-776.9	-328.3	2,154.2	2,130.8	23.38	92.152			
5,000.0	4,793.4	4,122.8	3,979.0	24.7	17.5	171.54	-807.3	-342.4	2,198.9	2,175.1	23.85	92.206			
5,100.0	4,893.4	4,214.2	4,063.8	24.9	18.2	171.58	-838.5	-356.9	2,239.0	2,214.7	24.26	92.285			
5,113.6	4,907.0	4,226.8	4,075.5	24.9	18.3	-145.13	-842.7	-358.9	2,244.1	2,219.8	24.31	92.298			
5,200.0	4,993.4	4,306.9	4,149.7	24.9	18.9	-145.27	-870.0	-371.6	2,276.1	2,251.4	24.71	92.120			
5,300.0	5,093.4	5,278.5	5,093.4	25.0	22.4	-146.08	-1,042.7	-451.9	2,301.9	2,274.7	27.18	84.680			
5,400.0	5,193.4	5,378.5	5,193.4	25.1	22.5	-146.08	-1,042.7	-451.9	2,301.9	2,274.4	27.51	83.684			
5,500.0	5,293.4	5,478.5	5,293.4	25.2	22.6	-146.08	-1,042.7	-451.9	2,301.9	2,274.0	27.83	82.701			
5,600.0	5,393.4	5,578.5	5,393.4	25.3	22.7	-146.08	-1,042.7	-451.9	2,301.9	2,273.7	28.16	81.732			
5,700.0	5,493.4	5,678.5	5,493.4	25.4	22.8	-146.08	-1,042.7	-451.9	2,301.9	2,273.4	28.50	80.775			
5,800.0	5,593.4	5,778.5	5,593.4	25.5	22.9	-146.08	-1,042.7	-451.9	2,301.9	2,273.0	28.83	79.832			
5,900.0	5,693.4	5,878.5	5,693.4	25.6	23.0	-146.08	-1,042.7	-451.9	2,301.9	2,272.7	29.17	78.902			
6,000.0	5,793.4	5,978.5	5,793.4	25.7	23.1	-146.08	-1,042.7	-451.9	2,301.9	2,272.3	29.52	77.986			
6,100.0	5,893.4	6,078.5	5,893.4	25.8	23.2	-146.08	-1,042.7	-451.9	2,301.9	2,272.0	29.86	77.083			
6,200.0	5,993.4	6,178.5	5,993.4	26.0	23.3	-146.08	-1,042.7	-451.9	2,301.9	2,271.7	30.21	76.195			
6,300.0	6,093.4	6,278.5	6,093.4	26.1	23.4	-146.08	-1,042.7	-451.9	2,301.9	2,271.3	30.56	75.320			
6,400.0	6,193.4	6,378.5	6,193.4	26.2	23.5	-146.08	-1,042.7	-451.9	2,301.9	2,270.9	30.91	74.459			
6,500.0	6,293.4	6,478.5	6,293.4	26.3	23.6	-146.08	-1,042.7	-451.9	2,301.9	2,270.6	31.27	73.611			
6,600.0	6,393.4	6,578.5	6,393.4	26.4	23.7	-146.08	-1,042.7	-451.9	2,301.9	2,270.2	31.63	72.777			
6,700.0	6,493.4	6,678.5	6,493.4	26.5	23.8	-146.08	-1,042.7	-451.9	2,301.9	2,269.9	31.99	71.956			
6,800.0	6,593.4	6,778.5	6,593.4	26.6	24.0	-146.08	-1,042.7	-451.9	2,301.9	2,269.5	32.35	71.149			
6,900.0	6,693.4	6,878.5	6,693.4	26.7	24.1	-146.08	-1,042.7	-451.9	2,301.9	2,269.1	32.72	70.355			
7,000.0	6,793.4	6,978.5	6,793.4	26.9	24.2	-146.08	-1,042.7	-451.9	2,301.9	2,268.8	33.08	69.575			
7,100.0	6,893.4	7,078.5	6,893.4	27.0	24.3	-146.08	-1,042.7	-451.9	2,301.9	2,268.4	33.45	68.807			
7,200.0	6,993.4	7,178.5	6,993.4	27.1	24.4	-146.08	-1,042.7	-451.9	2,301.9	2,268.0	33.83	68.052			
7,300.0	7,093.4	7,278.5	7,093.4	27.2	24.6	-146.08	-1,042.7	-451.9	2,301.9	2,267.7	34.20	67.310			
7,400.0	7,193.4	7,378.5	7,193.4	27.4	24.7	-146.08	-1,042.7	-451.9	2,301.9	2,267.3	34.57	66.580			
7,500.0	7,293.4	7,478.5	7,293.4	27.5	24.8	-146.08	-1,042.7	-451.9	2,301.9	2,266.9	34.95	65.863			
7,598.6	7,392.0	7,577.1	7,392.0	27.6	24.9	-146.08	-1,042.7	-451.9	2,301.9	2,266.5	35.32	65.167			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 33D-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	-164.94	-84.9	-22.8	87.9								
100.0	100.0	94.8	94.8	0.1	0.2	-164.84	-87.5	-23.7	90.8	90.6	0.19	466.157					
200.0	200.0	189.0	188.6	0.3	0.4	-164.56	-95.2	-26.3	99.4	98.8	0.68	146.381					
300.0	300.0	281.9	280.5	0.5	0.7	-164.19	-107.8	-30.5	113.8	112.5	1.23	92.809					
400.0	400.0	373.1	369.8	0.8	1.1	-163.81	-125.0	-36.3	133.6	131.8	1.84	72.542					
500.0	500.0	461.9	455.8	1.0	1.5	-163.47	-146.3	-43.4	158.8	156.3	2.51	63.179					
600.0	600.0	556.5	546.5	1.2	2.1	-163.16	-171.8	-52.0	187.3	184.1	3.27	57.277					
700.0	700.0	652.4	638.3	1.4	2.6	-162.94	-197.8	-60.7	215.9	211.9	4.04	53.399					
800.0	800.0	748.2	730.2	1.7	3.2	-162.77	-223.8	-69.4	244.5	239.6	4.82	50.739					
900.0	900.0	844.0	822.0	1.9	3.7	-162.63	-249.7	-78.1	273.0	267.4	5.59	48.805					
1,000.0	1,000.0	939.9	913.9	2.1	4.3	-162.52	-275.7	-86.8	301.6	295.2	6.37	47.336					
1,075.0	1,075.0	1,011.7	982.7	2.3	4.7	-162.45	-295.1	-93.4	323.0	316.1	6.95	46.448 SF					
1,100.0	1,100.0	1,035.7	1,005.7	2.3	4.9	117.37	-301.6	-95.5	330.2	325.2	5.07	65.154					
1,175.0	1,174.9	1,107.1	1,074.1	2.5	5.3	117.12	-321.0	-102.0	352.9	347.5	5.42	65.147					
1,200.0	1,199.9	1,130.7	1,096.8	2.5	5.4	125.46	-327.4	-104.2	360.9	355.4	5.53	65.233					
1,300.0	1,299.4	1,224.0	1,186.2	2.8	6.0	141.89	-352.6	-112.6	396.3	390.4	5.99	66.211					
1,400.0	1,398.1	1,314.9	1,273.3	3.0	6.5	148.64	-377.3	-120.9	437.2	430.8	6.42	68.150					
1,500.0	1,495.8	1,403.2	1,357.8	3.3	7.0	152.42	-401.2	-128.9	483.5	476.6	6.82	70.873					
1,600.0	1,591.9	1,488.4	1,439.5	3.7	7.5	154.90	-424.2	-136.7	534.9	527.7	7.21	74.225					
1,693.3	1,680.0	1,564.8	1,512.8	4.1	7.9	156.56	-445.0	-143.6	587.6	580.0	7.55	77.813					
1,700.0	1,686.3	1,570.2	1,518.0	4.2	8.0	156.64	-446.4	-144.1	591.5	583.9	7.58	77.995					
1,800.0	1,779.8	1,650.6	1,594.9	4.7	8.4	157.70	-468.2	-151.4	650.3	642.2	8.08	80.443					
1,900.0	1,873.2	1,730.9	1,671.9	5.3	8.9	158.59	-489.9	-158.7	709.2	700.6	8.60	82.482					
2,000.0	1,966.7	1,811.3	1,748.9	5.9	9.4	159.34	-511.7	-166.0	768.2	759.1	9.12	84.203					
2,100.0	2,060.2	1,891.6	1,825.9	6.5	9.9	159.99	-533.5	-173.3	827.3	817.7	9.66	85.671					
2,200.0	2,153.6	1,972.0	1,902.9	7.2	10.3	160.55	-555.2	-180.6	886.5	876.3	10.20	86.937					
2,300.0	2,247.1	2,052.3	1,979.9	7.8	10.8	161.05	-577.0	-187.9	945.7	934.9	10.74	88.040					
2,400.0	2,340.6	2,132.6	2,056.9	8.5	11.3	161.48	-598.8	-195.2	1,004.9	993.6	11.29	89.008					
2,500.0	2,434.0	2,213.0	2,133.9	9.2	11.7	161.87	-620.5	-202.5	1,064.2	1,052.4	11.84	89.864					
2,600.0	2,527.5	2,293.3	2,210.9	9.9	12.2	162.21	-642.3	-209.8	1,123.5	1,111.1	12.40	90.625					
2,700.0	2,620.9	2,373.7	2,287.9	10.5	12.7	162.52	-664.0	-217.1	1,182.8	1,169.9	12.95	91.306					
2,800.0	2,714.4	2,454.0	2,364.9	11.2	13.1	162.80	-685.8	-224.4	1,242.2	1,228.7	13.51	91.918					
2,900.0	2,807.9	2,534.3	2,441.9	11.9	13.6	163.06	-707.6	-231.7	1,301.5	1,287.5	14.08	92.471					
3,000.0	2,901.3	2,614.7	2,518.9	12.6	14.1	163.29	-729.3	-239.0	1,360.9	1,346.3	14.64	92.974					
3,100.0	2,994.8	2,695.0	2,595.9	13.3	14.6	163.51	-751.1	-246.3	1,420.3	1,405.1	15.20	93.431					
3,200.0	3,088.3	2,775.4	2,672.9	14.0	15.0	163.70	-772.8	-253.6	1,479.7	1,463.9	15.77	93.849					
3,300.0	3,181.7	2,855.7	2,749.9	14.7	15.5	163.89	-794.6	-260.9	1,539.1	1,522.8	16.33	94.232					
3,400.0	3,275.2	2,936.1	2,826.9	15.4	16.0	164.05	-816.4	-268.2	1,598.6	1,581.7	16.90	94.585					
3,500.0	3,368.7	3,016.4	2,903.8	16.1	16.4	164.21	-838.1	-275.5	1,658.0	1,640.5	17.47	94.910					
3,600.0	3,462.1	3,096.7	2,980.8	16.8	16.9	164.36	-859.9	-282.8	1,717.4	1,699.4	18.04	95.211					
3,700.0	3,555.6	3,177.1	3,057.8	17.5	17.4	164.49	-881.7	-290.1	1,776.9	1,758.3	18.61	95.490					
3,800.0	3,649.0	3,257.4	3,134.8	18.2	17.8	164.62	-903.4	-297.4	1,836.3	1,817.1	19.18	95.749					
3,900.0	3,742.5	3,337.8	3,211.8	18.9	18.3	164.74	-925.2	-304.7	1,895.8	1,876.0	19.75	95.990					
4,000.0	3,836.0	3,418.1	3,288.8	19.6	18.8	164.85	-946.9	-312.0	1,955.3	1,934.9	20.32	96.215					
4,100.0	3,929.4	3,498.5	3,365.8	20.3	19.3	164.95	-968.7	-319.3	2,014.7	1,993.8	20.89	96.426					
4,200.0	4,022.9	3,578.8	3,442.8	21.0	19.7	165.05	-990.5	-326.6	2,074.2	2,052.7	21.47	96.622					
4,300.0	4,116.4	3,659.1	3,519.8	21.7	20.2	165.15	-1,012.2	-333.9	2,133.7	2,111.6	22.04	96.807					
4,400.0	4,209.8	3,739.5	3,596.8	22.4	20.7	165.24	-1,034.0	-341.2	2,193.1	2,170.5	22.61	96.980					
4,419.3	4,227.9	3,755.0	3,611.6	22.6	20.8	165.25	-1,038.2	-342.6	2,204.6	2,181.9	22.73	97.012					
4,500.0	4,303.9	3,820.8	3,674.7	23.1	21.1	165.74	-1,056.0	-348.6	2,251.3	2,227.9	23.41	96.159					
4,600.0	4,399.5	3,904.9	3,755.3	23.5	21.6	166.23	-1,078.8	-356.2	2,305.3	2,281.1	24.20	95.279					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 33D-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,700.0	4,496.6	3,991.7	3,838.5	23.9	22.1	166.63	-1,102.3	-364.1	2,355.0	2,330.1	24.93	94.475			
4,800.0	4,594.8	4,080.9	3,924.0	24.3	22.7	166.93	-1,126.5	-372.2	2,400.2	2,374.6	25.60	93.758			
4,900.0	4,693.8	4,172.2	4,011.5	24.5	23.2	167.16	-1,151.2	-380.5	2,440.8	2,414.6	26.21	93.133			
5,000.0	4,793.4	4,265.5	4,100.9	24.7	23.7	167.32	-1,176.5	-389.0	2,476.6	2,449.9	26.74	92.603			
5,100.0	4,893.4	4,360.4	4,191.8	24.9	24.3	167.41	-1,202.2	-397.6	2,507.7	2,480.5	27.21	92.167			
5,113.6	4,907.0	4,373.4	4,204.3	24.9	24.4	-149.29	-1,205.7	-398.8	2,511.6	2,484.3	27.27	92.115			
5,200.0	4,993.4	4,456.2	4,283.6	24.9	24.9	-149.41	-1,228.1	-406.3	2,535.7	2,508.1	27.65	91.711			
5,300.0	5,093.4	5,280.7	5,093.4	25.0	27.3	-150.00	-1,349.6	-447.0	2,559.8	2,530.3	29.56	86.602			
5,400.0	5,193.4	5,380.7	5,193.4	25.1	27.4	-150.00	-1,349.6	-447.0	2,559.8	2,530.0	29.85	85.765			
5,500.0	5,293.4	5,480.7	5,293.4	25.2	27.5	-150.00	-1,349.6	-447.0	2,559.8	2,529.7	30.14	84.934			
5,600.0	5,393.4	5,580.7	5,393.4	25.3	27.5	-150.00	-1,349.6	-447.0	2,559.8	2,529.4	30.43	84.109			
5,700.0	5,493.4	5,680.7	5,493.4	25.4	27.6	-150.00	-1,349.6	-447.0	2,559.8	2,529.1	30.73	83.289			
5,800.0	5,593.4	5,780.7	5,593.4	25.5	27.7	-150.00	-1,349.6	-447.0	2,559.8	2,528.8	31.04	82.476			
5,900.0	5,693.4	5,880.7	5,693.4	25.6	27.8	-150.00	-1,349.6	-447.0	2,559.8	2,528.5	31.34	81.669			
6,000.0	5,793.4	5,980.7	5,793.4	25.7	27.8	-150.00	-1,349.6	-447.0	2,559.8	2,528.2	31.65	80.869			
6,100.0	5,893.4	6,080.7	5,893.4	25.8	27.9	-150.00	-1,349.6	-447.0	2,559.8	2,527.9	31.97	80.077			
6,200.0	5,993.4	6,180.7	5,993.4	26.0	28.0	-150.00	-1,349.6	-447.0	2,559.8	2,527.5	32.28	79.292			
6,300.0	6,093.4	6,280.7	6,093.4	26.1	28.1	-150.00	-1,349.6	-447.0	2,559.8	2,527.2	32.60	78.515			
6,400.0	6,193.4	6,380.7	6,193.4	26.2	28.2	-150.00	-1,349.6	-447.0	2,559.8	2,526.9	32.93	77.746			
6,500.0	6,293.4	6,480.7	6,293.4	26.3	28.2	-150.00	-1,349.6	-447.0	2,559.8	2,526.6	33.25	76.985			
6,600.0	6,393.4	6,580.7	6,393.4	26.4	28.3	-150.00	-1,349.6	-447.0	2,559.8	2,526.2	33.58	76.233			
6,700.0	6,493.4	6,680.7	6,493.4	26.5	28.4	-150.00	-1,349.6	-447.0	2,559.8	2,525.9	33.91	75.489			
6,800.0	6,593.4	6,780.7	6,593.4	26.6	28.5	-150.00	-1,349.6	-447.0	2,559.8	2,525.6	34.24	74.753			
6,900.0	6,693.4	6,880.7	6,693.4	26.7	28.6	-150.00	-1,349.6	-447.0	2,559.8	2,525.2	34.58	74.026			
7,000.0	6,793.4	6,980.7	6,793.4	26.9	28.7	-150.00	-1,349.6	-447.0	2,559.8	2,524.9	34.92	73.308			
7,100.0	6,893.4	7,080.7	6,893.4	27.0	28.8	-150.00	-1,349.6	-447.0	2,559.8	2,524.6	35.26	72.598			
7,200.0	6,993.4	7,180.7	6,993.4	27.1	28.9	-150.00	-1,349.6	-447.0	2,559.8	2,524.2	35.60	71.898			
7,300.0	7,093.4	7,280.7	7,093.4	27.2	29.0	-150.00	-1,349.6	-447.0	2,559.8	2,523.9	35.95	71.206			
7,400.0	7,193.4	7,380.7	7,193.4	27.4	29.1	-150.00	-1,349.6	-447.0	2,559.8	2,523.5	36.30	70.523			
7,500.0	7,293.4	7,480.7	7,293.4	27.5	29.2	-150.00	-1,349.6	-447.0	2,559.8	2,523.2	36.65	69.848			
7,598.6	7,392.0	7,579.4	7,392.0	27.6	29.3	-150.00	-1,349.6	-447.0	2,559.8	2,522.8	37.00	69.192			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 34A-14-06-92 - Wellbore #1 - Design #1		Offset Site Error: 0.0 usft	
Survey Program: 0-MWD													Offset Well Error: 0.0 usft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-167.68	-104.9	-22.9	107.4							
100.0	100.0	100.0	100.0	0.1	0.1	-167.68	-104.9	-22.9	107.4	107.2	0.19	575.458				
200.0	200.0	200.0	200.0	0.3	0.3	-167.68	-104.9	-22.9	107.4	106.7	0.64	168.774				
300.0	300.0	300.0	300.0	0.5	0.5	-167.68	-104.9	-22.9	107.4	106.3	1.09	98.888				
400.0	400.0	400.0	400.0	0.8	0.8	-167.68	-104.9	-22.9	107.4	105.8	1.54	69.931				
500.0	500.0	500.0	500.0	1.0	1.0	-167.68	-104.9	-22.9	107.4	105.4	1.98	54.092				
600.0	600.0	600.0	600.0	1.2	1.2	-167.68	-104.9	-22.9	107.4	104.9	2.43	44.103				
700.0	700.0	700.0	700.0	1.4	1.4	-167.68	-104.9	-22.9	107.4	104.5	2.88	37.228				
800.0	800.0	800.0	800.0	1.7	1.7	-167.68	-104.9	-22.9	107.4	104.0	3.33	32.207				
900.0	900.0	900.0	900.0	1.9	1.9	-167.68	-104.9	-22.9	107.4	103.6	3.78	28.380				
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-167.68	-104.9	-22.9	107.4	103.1	4.23	25.365				
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-167.68	-104.9	-22.9	107.4	102.8	4.57	23.494 CC				
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	112.42	-104.9	-22.9	107.4	102.7	4.68	22.960 ES				
1,175.0	1,174.9	1,173.0	1,173.0	2.5	2.5	113.57	-105.6	-22.8	109.2	104.2	4.98	21.945				
1,200.0	1,199.9	1,197.3	1,197.3	2.5	2.5	122.39	-106.1	-22.7	110.5	105.4	5.08	21.762 SF				
1,300.0	1,299.4	1,294.0	1,293.9	2.8	2.7	140.72	-109.7	-22.1	120.8	115.4	5.47	22.078				
1,400.0	1,398.1	1,389.2	1,389.0	3.0	2.9	149.11	-115.7	-21.0	139.3	133.4	5.87	23.724				
1,500.0	1,495.8	1,485.3	1,484.8	3.3	3.1	154.28	-123.1	-19.7	165.0	158.7	6.27	26.310				
1,600.0	1,591.9	1,580.0	1,579.1	3.7	3.3	158.03	-130.4	-18.4	196.5	189.8	6.66	29.512				
1,693.3	1,680.0	1,666.4	1,665.3	4.1	3.4	160.70	-137.1	-17.2	231.1	224.1	7.01	32.960				
1,700.0	1,686.3	1,672.5	1,671.4	4.2	3.5	160.82	-137.5	-17.2	233.8	226.8	7.04	33.197				
1,800.0	1,779.8	1,764.1	1,762.6	4.7	3.7	162.32	-144.6	-15.9	273.7	266.2	7.51	36.461				
1,900.0	1,873.2	1,855.6	1,853.8	5.3	3.9	163.43	-151.7	-14.7	313.7	305.7	7.98	39.293				
2,000.0	1,966.7	1,947.1	1,945.1	5.9	4.1	164.29	-158.7	-13.4	353.7	345.2	8.47	41.759				
2,100.0	2,060.2	2,038.6	2,036.3	6.5	4.3	164.98	-165.8	-12.2	393.8	384.9	8.97	43.917				
2,200.0	2,153.6	2,130.1	2,127.5	7.2	4.5	165.54	-172.9	-10.9	434.0	424.5	9.47	45.818				
2,300.0	2,247.1	2,221.6	2,218.8	7.8	4.8	166.01	-180.0	-9.7	474.2	464.2	9.98	47.498				
2,400.0	2,340.6	2,313.1	2,310.0	8.5	5.0	166.40	-187.0	-8.4	514.4	503.9	10.50	48.989				
2,500.0	2,434.0	2,400.0	2,396.6	9.2	5.2	166.72	-193.7	-7.2	554.6	543.6	11.01	50.364				
2,600.0	2,527.5	2,470.8	2,467.1	9.9	5.4	166.92	-200.7	-6.8	596.9	585.4	11.51	51.873				
2,700.0	2,620.9	2,535.6	2,531.3	10.5	5.6	167.03	-209.5	-7.3	642.7	630.7	12.00	53.567				
2,800.0	2,714.4	2,600.0	2,594.7	11.2	5.8	167.07	-220.6	-8.7	691.9	679.4	12.50	55.363				
2,900.0	2,807.9	2,657.5	2,650.9	11.9	6.0	167.07	-232.5	-10.7	744.2	731.2	12.99	57.307				
3,000.0	2,901.3	2,700.0	2,692.1	12.6	6.1	167.05	-242.5	-12.5	799.7	786.2	13.44	59.489				
3,100.0	2,994.8	2,768.9	2,758.5	13.3	6.4	166.98	-260.8	-16.4	857.5	843.5	13.97	61.387				
3,200.0	3,088.3	2,820.9	2,807.9	14.0	6.6	166.90	-276.3	-20.0	918.1	903.6	14.45	63.529				
3,300.0	3,181.7	2,870.4	2,854.6	14.7	6.9	166.81	-292.5	-23.9	981.0	966.1	14.94	65.665				
3,400.0	3,275.2	2,900.0	2,882.2	15.4	7.0	166.74	-302.8	-26.4	1,046.5	1,031.1	15.38	68.051				
3,500.0	3,368.7	2,962.4	2,939.8	16.1	7.4	166.60	-326.0	-32.4	1,113.5	1,097.6	15.91	69.992				
3,600.0	3,462.1	3,000.0	2,974.1	16.8	7.6	166.51	-341.0	-36.4	1,182.7	1,166.4	16.37	72.269				
3,700.0	3,555.6	3,045.8	3,015.3	17.5	7.9	166.38	-360.2	-41.6	1,253.7	1,236.8	16.86	74.377				
3,800.0	3,649.0	3,100.0	3,063.4	18.2	8.3	166.23	-384.4	-48.3	1,326.5	1,309.1	17.36	76.391				
3,900.0	3,742.5	3,100.0	3,063.4	18.9	8.3	166.23	-384.4	-48.3	1,400.8	1,383.1	17.73	79.016				
4,000.0	3,836.0	3,156.4	3,112.5	19.6	8.7	166.06	-411.0	-55.9	1,476.1	1,457.9	18.25	80.871				
4,100.0	3,929.4	3,200.0	3,149.7	20.3	9.0	165.93	-432.7	-62.2	1,553.2	1,534.4	18.74	82.888				
4,200.0	4,022.9	3,200.0	3,149.7	21.0	9.0	165.93	-432.7	-62.2	1,631.6	1,612.5	19.10	85.402				
4,300.0	4,116.4	3,251.9	3,193.3	21.7	9.5	165.77	-459.8	-70.2	1,710.6	1,691.0	19.62	87.178				
4,400.0	4,209.8	3,300.0	3,232.9	22.4	9.9	165.62	-486.0	-78.0	1,791.3	1,771.2	20.12	89.019				
4,419.3	4,227.9	3,300.0	3,232.9	22.6	9.9	165.62	-486.0	-78.0	1,806.8	1,786.6	20.19	89.475				
4,500.0	4,303.9	3,308.9	3,240.2	23.1	10.0	166.37	-490.9	-79.5	1,871.5	1,851.0	20.55	91.060				
4,600.0	4,399.5	3,363.5	3,284.3	23.5	10.5	167.01	-521.6	-88.7	1,949.7	1,928.7	21.06	92.585				

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 34A-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	3,429.3	3,337.6	23.9	11.1	167.47	-558.7	-99.9	2,024.6	2,003.1	21.56	93.916		
4,800.0	4,594.8	3,498.8	3,393.8	24.3	11.8	167.82	-597.8	-111.7	2,096.1	2,074.1	22.03	95.154		
4,900.0	4,693.8	3,571.7	3,452.7	24.5	12.5	168.06	-638.8	-124.1	2,164.0	2,141.5	22.47	96.286		
5,000.0	4,793.4	3,647.8	3,514.3	24.7	13.3	168.23	-681.7	-137.0	2,228.0	2,205.1	22.88	97.362		
5,100.0	4,893.4	3,726.8	3,578.2	24.9	14.1	168.32	-726.2	-150.4	2,288.1	2,264.8	23.25	98.392		
5,113.6	4,907.0	3,737.8	3,587.1	24.9	14.2	-148.38	-732.4	-152.3	2,296.0	2,272.7	23.30	98.527		
5,200.0	4,993.4	3,807.7	3,643.6	24.9	14.9	-148.69	-771.7	-164.1	2,345.6	2,321.9	23.71	98.926		
5,300.0	5,093.4	3,888.6	3,709.1	25.0	15.8	-149.04	-817.2	-177.9	2,403.2	2,379.0	24.20	99.302		
5,400.0	5,193.4	3,969.5	3,774.5	25.1	16.7	-149.37	-862.8	-191.6	2,460.9	2,436.2	24.69	99.663		
5,500.0	5,293.4	4,050.4	3,839.9	25.2	17.5	-149.69	-908.3	-205.3	2,518.5	2,493.4	25.18	100.011		
5,600.0	5,393.4	4,131.3	3,905.4	25.3	18.4	-149.99	-953.8	-219.1	2,576.3	2,550.6	25.67	100.348		
5,700.0	5,493.4	4,212.2	3,970.8	25.4	19.3	-150.28	-999.4	-232.8	2,634.0	2,607.9	26.16	100.674		
5,800.0	5,593.4	4,293.1	4,036.3	25.5	20.1	-150.56	-1,044.9	-246.5	2,691.9	2,665.2	26.66	100.987		
5,900.0	5,693.4	4,373.9	4,101.7	25.6	21.0	-150.83	-1,090.4	-260.2	2,749.7	2,722.6	27.15	101.287		
6,000.0	5,793.4	4,454.8	4,167.1	25.7	21.9	-151.08	-1,136.0	-274.0	2,807.6	2,780.0	27.64	101.579		
6,100.0	5,893.4	4,535.7	4,232.5	25.8	22.8	-151.33	-1,181.5	-287.7	2,865.5	2,837.3	28.13	101.871		
6,200.0	5,993.4	4,616.6	4,297.9	26.0	23.7	-151.58	-1,227.0	-301.4	2,923.4	2,894.9	28.62	102.163		
6,300.0	6,093.4	4,697.5	4,363.3	26.1	24.6	-151.83	-1,272.5	-315.1	2,981.3	2,951.8	29.11	102.455		
6,400.0	6,193.4	4,778.4	4,428.7	26.2	25.5	-152.08	-1,318.0	-328.8	3,039.2	2,998.7	29.60	102.747		
6,500.0	6,293.4	4,859.3	4,494.1	26.3	26.4	-152.33	-1,363.5	-342.5	3,097.1	3,046.6	30.09	103.039		
6,600.0	6,393.4	4,940.2	4,559.5	26.4	27.3	-152.58	-1,409.0	-356.2	3,155.0	3,095.1	30.58	103.331		
6,700.0	6,493.4	5,021.1	4,624.9	26.5	28.2	-152.83	-1,454.5	-369.9	3,212.9	3,143.6	31.07	103.623		
6,800.0	6,593.4	5,102.0	4,690.3	26.6	29.1	-153.08	-1,500.0	-383.6	3,270.8	3,192.1	31.56	103.915		
6,900.0	6,693.4	5,182.9	4,755.7	26.7	30.0	-153.33	-1,545.5	-397.3	3,328.7	3,240.6	32.05	104.207		
7,000.0	6,793.4	5,263.8	4,821.1	26.9	30.9	-153.58	-1,591.0	-411.0	3,386.6	3,289.1	32.54	104.500		
7,100.0	6,893.4	5,344.7	4,886.5	27.0	31.8	-153.83	-1,636.5	-424.7	3,444.5	3,337.6	33.03	104.792		
7,200.0	6,993.4	5,425.6	4,951.9	27.1	32.7	-154.08	-1,682.0	-438.4	3,502.4	3,386.1	33.52	105.084		
7,300.0	7,093.4	5,506.5	5,017.3	27.2	33.6	-154.33	-1,727.5	-452.1	3,560.3	3,434.6	34.01	105.376		
7,400.0	7,193.4	5,587.4	5,082.7	27.4	34.5	-154.58	-1,773.0	-465.8	3,618.2	3,483.1	34.50	105.668		
7,500.0	7,293.4	5,668.3	5,148.1	27.5	35.4	-154.83	-1,818.5	-479.5	3,676.1	3,531.6	35.00	105.960		
7,598.6	7,392.0	5,749.2	5,213.5	27.6	36.3	-155.08	-1,864.0	-493.2	3,734.0	3,580.1	35.49	106.252		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 34B-14-06-92 - Wellbore #1 - Design #1		Offset Site Error: 0.0 usft	
Survey Program: 0-MWD															Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-169.57	-124.9	-23.0	127.0							
100.0	100.0	100.0	100.0	0.1	0.1	-169.57	-124.9	-23.0	127.0	126.8	0.19	680.626				
200.0	200.0	200.0	200.0	0.3	0.3	-169.57	-124.9	-23.0	127.0	126.3	0.64	199.619				
300.0	300.0	300.0	300.0	0.5	0.5	-169.57	-124.9	-23.0	127.0	125.9	1.09	116.961				
400.0	400.0	400.0	400.0	0.8	0.8	-169.57	-124.9	-23.0	127.0	125.4	1.54	82.712				
500.0	500.0	500.0	500.0	1.0	1.0	-169.57	-124.9	-23.0	127.0	125.0	1.98	63.977				
600.0	600.0	600.0	600.0	1.2	1.2	-169.57	-124.9	-23.0	127.0	124.5	2.43	52.163				
700.0	700.0	700.0	700.0	1.4	1.4	-169.57	-124.9	-23.0	127.0	124.1	2.88	44.031				
800.0	800.0	800.0	800.0	1.7	1.7	-169.57	-124.9	-23.0	127.0	123.6	3.33	38.093				
900.0	900.0	900.0	900.0	1.9	1.9	-169.57	-124.9	-23.0	127.0	123.2	3.78	33.566				
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-169.57	-124.9	-23.0	127.0	122.7	4.23	30.001				
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-169.57	-124.9	-23.0	127.0	122.4	4.57	27.788 CC				
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	110.51	-124.9	-23.0	127.0	122.4	4.68	27.152 ES				
1,175.0	1,174.9	1,171.9	1,171.9	2.5	2.5	111.72	-125.7	-23.4	129.0	124.0	4.98	25.919				
1,200.0	1,199.9	1,195.7	1,195.7	2.5	2.5	120.63	-126.3	-23.8	130.4	125.3	5.08	25.685 SF				
1,300.0	1,299.4	1,290.4	1,290.2	2.8	2.7	139.75	-130.4	-26.2	141.9	136.5	5.48	25.920				
1,400.0	1,398.1	1,379.6	1,379.1	3.0	2.9	149.06	-137.6	-29.6	163.7	157.8	5.87	27.866				
1,500.0	1,495.8	1,464.5	1,463.1	3.3	3.1	154.61	-149.0	-33.5	196.5	190.3	6.27	31.344				
1,600.0	1,591.9	1,544.1	1,541.3	3.7	3.3	158.09	-163.5	-37.8	239.7	233.0	6.66	35.998				
1,693.3	1,680.0	1,612.8	1,608.1	4.1	3.5	160.16	-179.1	-42.0	288.4	281.4	7.01	41.141				
1,700.0	1,686.3	1,617.6	1,612.7	4.2	3.5	160.24	-180.3	-42.3	292.2	285.1	7.04	41.506				
1,800.0	1,779.8	1,686.0	1,678.4	4.7	3.7	161.14	-198.7	-46.9	350.4	342.9	7.48	46.816				
1,900.0	1,873.2	1,750.6	1,739.7	5.3	4.0	161.63	-218.6	-51.6	411.7	403.7	7.94	51.863				
2,000.0	1,966.7	1,811.7	1,796.8	5.9	4.3	161.87	-239.5	-56.3	475.9	467.5	8.40	56.667				
2,100.0	2,060.2	1,869.2	1,849.9	6.5	4.6	161.96	-261.2	-61.1	542.6	533.8	8.86	61.217				
2,200.0	2,153.6	1,923.4	1,899.1	7.2	4.9	161.95	-283.3	-65.9	611.8	602.4	9.33	65.548				
2,300.0	2,247.1	1,974.4	1,944.8	7.8	5.3	161.88	-305.5	-70.6	683.1	673.3	9.81	69.653				
2,400.0	2,340.6	2,024.7	1,989.1	8.5	5.6	161.76	-328.8	-75.4	756.3	746.0	10.30	73.414				
2,500.0	2,434.0	2,091.9	2,048.0	9.2	6.2	161.60	-360.6	-82.0	830.4	819.5	10.81	76.781				
2,600.0	2,527.5	2,159.1	2,106.8	9.9	6.7	161.47	-392.4	-88.5	904.4	893.1	11.33	79.825				
2,700.0	2,620.9	2,226.3	2,165.7	10.5	7.3	161.36	-424.2	-95.1	978.4	966.6	11.85	82.557				
2,800.0	2,714.4	2,293.6	2,224.5	11.2	7.8	161.26	-456.0	-101.6	1,052.4	1,040.0	12.38	85.002				
2,900.0	2,807.9	2,360.8	2,283.4	11.9	8.4	161.18	-487.8	-108.2	1,126.5	1,113.5	12.92	87.179				
3,000.0	2,901.3	2,428.0	2,342.3	12.6	9.0	161.10	-519.6	-114.7	1,200.5	1,187.0	13.46	89.157				
3,100.0	2,994.8	2,495.2	2,401.1	13.3	9.6	161.04	-551.4	-121.3	1,274.5	1,260.5	14.01	90.948				
3,200.0	3,088.3	2,562.5	2,460.0	14.0	10.2	160.98	-583.2	-127.8	1,348.5	1,334.0	14.57	92.559				
3,300.0	3,181.7	2,629.7	2,518.9	14.7	10.8	160.93	-615.0	-134.4	1,422.6	1,407.4	15.13	94.033				
3,400.0	3,275.2	2,696.9	2,577.7	15.4	11.4	160.88	-646.8	-140.9	1,496.6	1,480.9	15.69	95.381				
3,500.0	3,368.7	2,764.1	2,636.6	16.1	12.0	160.84	-678.6	-147.5	1,570.6	1,554.4	16.26	96.604				
3,600.0	3,462.1	2,831.4	2,695.5	16.8	12.6	160.80	-710.4	-154.0	1,644.6	1,627.8	16.83	97.731				
3,700.0	3,555.6	2,898.6	2,754.3	17.5	13.2	160.77	-742.2	-160.6	1,718.7	1,701.3	17.40	98.770				
3,800.0	3,649.0	2,965.8	2,813.2	18.2	13.8	160.73	-774.0	-167.1	1,792.7	1,774.7	17.98	99.720				
3,900.0	3,742.5	3,033.0	2,872.1	18.9	14.4	160.70	-805.8	-173.7	1,866.7	1,848.2	18.56	100.601				
4,000.0	3,836.0	3,100.3	2,930.9	19.6	15.0	160.68	-837.6	-180.2	1,940.8	1,921.6	19.14	101.418				
4,100.0	3,929.4	3,167.5	2,989.8	20.3	15.6	160.65	-869.3	-186.8	2,014.8	1,995.1	19.72	102.171				
4,200.0	4,022.9	3,234.7	3,048.7	21.0	16.2	160.63	-901.1	-193.3	2,088.8	2,068.5	20.30	102.873				
4,300.0	4,116.4	3,301.9	3,107.5	21.7	16.9	160.60	-932.9	-199.9	2,162.9	2,142.0	20.89	103.529				
4,400.0	4,209.8	3,369.2	3,166.4	22.4	17.5	160.58	-964.7	-206.4	2,236.9	2,215.4	21.48	104.137				
4,419.3	4,227.9	3,382.1	3,177.8	22.6	17.6	160.58	-970.9	-207.7	2,251.2	2,229.6	21.59	104.250				
4,500.0	4,303.9	3,437.5	3,226.3	23.1	18.1	161.38	-997.1	-213.1	2,309.8	2,287.6	22.22	103.930				
4,600.0	4,399.5	3,509.4	3,289.2	23.5	18.8	162.19	-1,031.1	-220.1	2,379.3	2,356.4	22.97	103.605				

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 34B-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,700.0	4,496.6	3,584.5	3,355.0	23.9	19.4	162.84	-1,066.6	-227.4	2,445.2	2,421.5	23.68	103.240			
4,800.0	4,594.8	3,662.7	3,423.4	24.3	20.2	163.35	-1,103.6	-235.0	2,507.2	2,482.8	24.37	102.879			
4,900.0	4,693.8	3,743.7	3,494.4	24.5	20.9	163.75	-1,141.9	-242.9	2,565.2	2,540.2	25.01	102.552			
5,000.0	4,793.4	3,827.5	3,567.7	24.7	21.7	164.04	-1,181.5	-251.1	2,619.1	2,593.5	25.61	102.278			
5,100.0	4,893.4	3,913.6	3,643.2	24.9	22.5	164.25	-1,222.3	-259.5	2,668.8	2,642.6	26.15	102.070			
5,113.6	4,907.0	3,925.5	3,653.6	24.9	22.6	-152.44	-1,227.9	-260.6	2,675.2	2,649.0	26.22	102.048			
5,200.0	4,993.4	4,001.1	3,719.8	24.9	23.3	-152.68	-1,263.7	-268.0	2,715.7	2,689.0	26.65	101.908			
5,300.0	5,093.4	4,088.7	3,796.5	25.0	24.1	-152.95	-1,305.1	-276.5	2,762.6	2,735.4	27.16	101.701			
5,400.0	5,193.4	4,176.3	3,873.2	25.1	24.9	-153.21	-1,346.5	-285.1	2,809.6	2,781.9	27.68	101.506			
5,500.0	5,293.4	4,263.8	3,949.9	25.2	25.7	-153.46	-1,387.9	-293.6	2,856.6	2,828.4	28.19	101.322			
5,600.0	5,393.4	4,351.4	4,026.5	25.3	26.5	-153.71	-1,429.3	-302.1	2,903.6	2,874.9	28.71	101.147			
5,700.0	5,493.4	4,439.0	4,103.2	25.4	27.3	-153.94	-1,470.7	-310.7	2,950.7	2,921.5	29.22	100.982			
5,800.0	5,593.4	4,526.5	4,179.9	25.5	28.2	-154.17	-1,512.2	-319.2	2,997.9	2,968.1	29.73	100.825			
5,900.0	5,693.4	4,614.1	4,256.6	25.6	29.0	-154.39	-1,553.6	-327.7	3,045.0	3,014.8	30.25	100.676			
6,000.0	5,793.4	4,701.7	4,333.2	25.7	29.8	-154.61	-1,595.0	-336.3	3,092.2	3,061.5	30.76	100.534			
6,100.0	5,893.4	4,789.2	4,409.9	25.8	30.6	-154.81	-1,636.4	-344.8	3,139.5	3,108.2	31.27	100.399			
6,200.0	5,993.4	4,876.6	4,487.4	26.0	31.4	-155.03	-1,677.8	-353.3	3,186.5	3,154.9	31.78	100.264			
6,300.0	6,093.4	4,964.1	4,564.9	26.1	32.2	-155.25	-1,719.2	-361.8	3,233.5	3,201.9	32.29	100.129			
6,400.0	6,193.4	5,051.6	4,642.4	26.2	33.0	-155.47	-1,760.6	-370.3	3,280.5	3,248.3	32.80	100.000			
6,500.0	6,293.4	5,139.1	4,719.9	26.3	33.8	-155.69	-1,802.0	-378.8	3,327.5	3,295.3	33.31	99.865			
6,600.0	6,393.4	5,226.6	4,797.4	26.4	34.6	-155.91	-1,843.4	-387.3	3,374.5	3,342.3	33.82	99.730			
6,700.0	6,493.4	5,314.1	4,874.9	26.5	35.4	-156.13	-1,884.8	-395.8	3,421.5	3,389.3	34.33	99.595			
6,800.0	6,593.4	5,401.6	4,952.4	26.6	36.2	-156.35	-1,926.2	-404.3	3,468.5	3,436.3	34.84	99.460			
6,900.0	6,693.4	5,489.1	5,029.9	26.7	37.0	-156.57	-1,967.6	-412.8	3,515.5	3,483.3	35.35	99.325			
7,000.0	6,793.4	5,576.6	5,107.4	26.9	37.8	-156.79	-2,009.0	-421.3	3,562.5	3,530.3	35.86	99.190			
7,100.0	6,893.4	5,664.1	5,184.9	27.0	38.6	-157.01	-2,050.4	-429.8	3,609.5	3,577.3	36.37	99.055			
7,200.0	6,993.4	5,751.6	5,262.4	27.1	39.4	-157.23	-2,091.8	-438.3	3,656.5	3,624.3	36.88	98.920			
7,300.0	7,093.4	5,839.1	5,339.9	27.2	40.2	-157.45	-2,133.2	-446.8	3,703.5	3,671.3	37.39	98.785			
7,400.0	7,193.4	5,926.6	5,417.4	27.4	41.0	-157.67	-2,174.6	-455.3	3,750.5	3,718.3	37.90	98.650			
7,500.0	7,293.4	6,014.1	5,494.9	27.5	41.8	-157.89	-2,216.0	-463.8	3,797.5	3,765.3	38.41	98.515			
7,598.6	7,392.0	6,101.6	5,572.4	27.6	42.6	-158.11	-2,257.4	-472.3	3,844.5	3,812.3	38.92	98.380			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 34C-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD															Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
0.0	0.0	0.0	0.0	0.0	0.0	-170.95	-144.9	-23.1	146.7								
100.0	100.0	100.0	100.0	0.1	0.1	-170.95	-144.9	-23.1	146.7	146.5	0.19	786.338					
200.0	200.0	200.0	200.0	0.3	0.3	-170.95	-144.9	-23.1	146.7	146.1	0.64	230.622					
300.0	300.0	300.0	300.0	0.5	0.5	-170.95	-144.9	-23.1	146.7	145.6	1.09	135.127					
400.0	400.0	400.0	400.0	0.8	0.8	-170.95	-144.9	-23.1	146.7	145.2	1.54	95.558					
500.0	500.0	500.0	500.0	1.0	1.0	-170.95	-144.9	-23.1	146.7	144.7	1.98	73.914					
600.0	600.0	600.0	600.0	1.2	1.2	-170.95	-144.9	-23.1	146.7	144.3	2.43	60.264					
700.0	700.0	700.0	700.0	1.4	1.4	-170.95	-144.9	-23.1	146.7	143.8	2.88	50.870					
800.0	800.0	800.0	800.0	1.7	1.7	-170.95	-144.9	-23.1	146.7	143.4	3.33	44.010					
900.0	900.0	900.0	900.0	1.9	1.9	-170.95	-144.9	-23.1	146.7	142.9	3.78	38.780					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-170.95	-144.9	-23.1	146.7	142.5	4.23	34.661					
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-170.95	-144.9	-23.1	146.7	142.1	4.57	32.103	CC				
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	109.12	-144.9	-23.1	146.8	142.1	4.68	31.366	ES				
1,175.0	1,174.9	1,172.9	1,172.9	2.5	2.5	110.10	-145.0	-23.1	147.9	142.9	4.99	29.637					
1,200.0	1,199.9	1,195.8	1,195.8	2.5	2.5	118.85	-145.5	-23.3	149.1	144.0	5.09	29.297	SF				
1,300.0	1,299.4	1,286.2	1,286.1	2.8	2.7	137.25	-150.2	-24.9	161.1	155.6	5.48	29.370					
1,400.0	1,398.1	1,373.8	1,373.2	3.0	2.9	145.89	-159.5	-27.4	184.3	178.4	5.88	31.336					
1,500.0	1,495.8	1,457.3	1,455.5	3.3	3.0	151.09	-172.5	-30.5	218.4	212.1	6.28	34.766					
1,600.0	1,591.9	1,535.3	1,531.8	3.7	3.3	154.45	-188.5	-33.9	262.6	255.9	6.68	39.321					
1,693.3	1,680.0	1,600.0	1,594.4	4.1	3.4	156.45	-204.4	-37.1	312.2	305.1	7.04	44.365					
1,700.0	1,686.3	1,600.0	1,594.4	4.2	3.4	156.45	-204.4	-37.1	316.1	309.0	7.06	44.787					
1,800.0	1,779.8	1,674.0	1,665.2	4.7	3.7	157.66	-225.6	-41.3	375.1	367.5	7.53	49.834					
1,900.0	1,873.2	1,737.1	1,724.7	5.3	4.0	158.33	-246.2	-45.2	437.2	429.2	7.99	54.727					
2,000.0	1,966.7	1,800.0	1,783.2	5.9	4.3	158.75	-269.0	-49.5	502.2	493.8	8.47	59.329					
2,100.0	2,060.2	1,852.8	1,831.5	6.5	4.6	158.97	-289.8	-53.3	569.7	560.8	8.93	63.775					
2,200.0	2,153.6	1,900.0	1,874.2	7.2	4.9	159.08	-309.7	-57.0	639.6	630.2	9.40	68.046					
2,300.0	2,247.1	1,955.4	1,923.5	7.8	5.3	159.13	-334.6	-61.4	711.6	701.7	9.89	71.966					
2,400.0	2,340.6	2,000.0	1,962.5	8.5	5.7	159.13	-355.8	-65.2	785.5	775.1	10.37	75.731					
2,500.0	2,434.0	2,046.4	2,002.5	9.2	6.1	159.08	-379.0	-69.4	861.1	850.3	10.87	79.233					
2,600.0	2,527.5	2,103.2	2,050.5	9.9	6.5	158.98	-408.9	-74.6	938.6	927.2	11.38	82.465					
2,700.0	2,620.9	2,141.4	2,082.4	10.5	6.9	158.91	-429.5	-78.2	1,016.9	1,005.1	11.86	85.735					
2,800.0	2,714.4	2,203.2	2,134.1	11.2	7.5	158.80	-462.9	-84.1	1,095.5	1,083.1	12.39	88.392					
2,900.0	2,807.9	2,265.0	2,185.7	11.9	8.1	158.71	-496.4	-90.0	1,174.1	1,161.2	12.93	90.811					
3,000.0	2,901.3	2,326.8	2,237.4	12.6	8.6	158.63	-529.8	-95.8	1,252.7	1,239.3	13.47	93.022					
3,100.0	2,994.8	2,388.6	2,289.0	13.3	9.2	158.56	-563.2	-101.7	1,331.4	1,317.3	14.01	95.025					
3,200.0	3,088.3	2,450.4	2,340.7	14.0	9.9	158.50	-596.6	-107.5	1,410.0	1,395.4	14.56	96.830					
3,300.0	3,181.7	2,512.2	2,392.3	14.7	10.5	158.44	-630.1	-113.4	1,488.6	1,473.5	15.11	98.489					
3,400.0	3,275.2	2,574.0	2,444.0	15.4	11.1	158.39	-663.5	-119.3	1,567.2	1,551.5	15.67	99.992					
3,500.0	3,368.7	2,635.8	2,495.6	16.1	11.7	158.34	-696.9	-125.1	1,645.8	1,629.6	16.24	101.371					
3,600.0	3,462.1	2,697.6	2,547.3	16.8	12.3	158.30	-730.3	-131.0	1,724.4	1,707.6	16.80	102.644					
3,700.0	3,555.6	2,759.4	2,598.9	17.5	13.0	158.26	-763.8	-136.8	1,803.0	1,785.6	17.37	103.801					
3,800.0	3,649.0	2,821.2	2,650.6	18.2	13.6	158.23	-797.2	-142.7	1,881.6	1,863.7	17.94	104.876					
3,900.0	3,742.5	2,883.0	2,702.2	18.9	14.2	158.19	-830.6	-148.5	1,960.2	1,941.7	18.52	105.868					
4,000.0	3,836.0	2,944.8	2,753.9	19.6	14.9	158.16	-864.0	-154.4	2,038.9	2,019.8	19.09	106.783					
4,100.0	3,929.4	3,006.6	2,805.5	20.3	15.5	158.14	-897.5	-160.3	2,117.5	2,097.8	19.67	107.638					
4,200.0	4,022.9	3,068.4	2,857.2	21.0	16.1	158.11	-930.9	-166.1	2,196.1	2,175.8	20.25	108.426					
4,300.0	4,116.4	3,130.2	2,908.9	21.7	16.8	158.09	-964.3	-172.0	2,274.7	2,253.9	20.84	109.162					
4,400.0	4,209.8	3,192.0	2,960.5	22.4	17.4	158.06	-997.8	-177.8	2,353.3	2,331.9	21.42	109.851					
4,419.3	4,227.9	3,204.0	2,970.5	22.6	17.5	158.06	-1,004.2	-179.0	2,368.5	2,346.9	21.54	109.978					
4,500.0	4,303.9	3,255.1	3,013.2	23.1	18.1	159.10	-1,031.8	-183.8	2,430.9	2,408.8	22.14	109.811					
4,600.0	4,399.5	3,321.7	3,068.9	23.5	18.8	160.16	-1,067.9	-190.1	2,505.4	2,482.6	22.86	109.618					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Valley Farms G - Valley Farms G 34C-14-06-92 - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	3,391.8	3,127.4	23.9	19.5	161.01	-1,105.8	-196.8	2,576.6	2,553.0	23.57	109.329		
4,800.0	4,594.8	3,465.2	3,188.8	24.3	20.2	161.69	-1,145.5	-203.7	2,644.1	2,619.9	24.26	109.012		
4,900.0	4,693.8	3,541.6	3,252.7	24.5	21.0	162.23	-1,186.8	-211.0	2,708.0	2,683.1	24.91	108.713		
5,000.0	4,793.4	3,621.0	3,319.0	24.7	21.9	162.64	-1,229.7	-218.5	2,768.0	2,742.5	25.52	108.459		
5,100.0	4,893.4	3,702.9	3,387.5	24.9	22.7	162.95	-1,274.1	-226.3	2,824.0	2,797.9	26.08	108.271		
5,113.6	4,907.0	3,714.3	3,397.0	24.9	22.8	-153.73	-1,280.2	-227.4	2,831.3	2,805.1	26.15	108.251		
5,200.0	4,993.4	3,786.5	3,457.3	24.9	23.6	-153.99	-1,319.3	-234.2	2,877.3	2,850.8	26.59	108.202		
5,300.0	5,093.4	3,870.1	3,527.2	25.0	24.5	-154.29	-1,364.5	-242.1	2,930.8	2,903.6	27.11	108.097		
5,400.0	5,193.4	3,953.7	3,597.0	25.1	25.3	-154.57	-1,409.7	-250.0	2,984.2	2,956.6	27.63	108.002		
5,500.0	5,293.4	4,037.2	3,666.9	25.2	26.2	-154.84	-1,454.9	-258.0	3,037.7	3,009.6	28.15	107.918		
5,600.0	5,393.4	4,120.8	3,736.7	25.3	27.1	-155.11	-1,500.1	-265.9	3,091.3	3,062.6	28.67	107.842		
5,700.0	5,493.4	4,204.4	3,806.6	25.4	27.9	-155.36	-1,545.3	-273.8	3,144.9	3,115.7	29.18	107.774		
5,800.0	5,593.4	4,288.0	3,876.4	25.5	28.8	-155.61	-1,590.5	-281.7	3,198.6	3,168.9	29.70	107.713		
5,900.0	5,693.4	4,371.5	3,946.3	25.6	29.7	-155.85	-1,635.7	-289.7	3,252.3	3,222.1	30.21	107.659		
6,000.0	5,793.4	4,455.1	4,016.1	25.7	30.6	-156.08	-1,680.9	-297.6	3,306.0	3,275.3	30.72	107.610		
6,100.0	5,893.4	4,538.7	4,086.0	25.8	31.4	-156.30	-1,726.1	-305.5	3,359.8	3,328.6	31.23	107.566		
6,200.0	5,993.4	4,622.3	4,155.8	26.0	32.3	-156.52	-1,771.3	-313.4	3,413.6	3,381.9	31.75	107.526		
6,300.0	6,093.4	4,711.4	4,225.4	26.1	43.1	-158.84	-2,361.8	-416.9	3,462.5	3,425.1	37.42	92.539		
6,400.0	6,193.4	4,801.4	4,295.4	26.2	43.1	-158.84	-2,361.8	-416.9	3,462.5	3,424.8	37.70	91.840		
6,500.0	6,293.4	4,891.4	4,369.4	26.3	43.2	-158.84	-2,361.8	-416.9	3,462.5	3,424.5	37.99	91.145		
6,600.0	6,393.4	4,981.4	4,447.4	26.4	43.3	-158.84	-2,361.8	-416.9	3,462.5	3,424.3	38.28	90.452		
6,700.0	6,493.4	5,071.4	4,525.4	26.5	43.3	-158.84	-2,361.8	-416.9	3,462.5	3,424.0	38.57	89.764		
6,800.0	6,593.4	5,161.4	4,603.4	26.6	43.4	-158.84	-2,361.8	-416.9	3,462.5	3,423.7	38.87	89.079		
6,900.0	6,693.4	5,251.4	4,681.4	26.7	43.4	-158.84	-2,361.8	-416.9	3,462.5	3,423.4	39.17	88.398		
7,000.0	6,793.4	5,341.4	4,759.4	26.9	43.5	-158.84	-2,361.8	-416.9	3,462.5	3,423.1	39.47	87.721		
7,100.0	6,893.4	5,431.4	4,837.4	27.0	43.6	-158.84	-2,361.8	-416.9	3,462.5	3,422.8	39.78	87.049		
7,200.0	6,993.4	5,521.4	4,915.4	27.1	43.6	-158.84	-2,361.8	-416.9	3,462.5	3,422.5	40.08	86.381		
7,300.0	7,093.4	5,611.4	5,093.4	27.2	43.7	-158.84	-2,361.8	-416.9	3,462.5	3,422.1	40.39	85.718		
7,400.0	7,193.4	5,701.4	5,171.4	27.4	43.7	-158.84	-2,361.8	-416.9	3,462.5	3,421.8	40.71	85.059		
7,500.0	7,293.4	5,791.4	5,253.4	27.5	43.8	-158.84	-2,361.8	-416.9	3,462.5	3,421.5	41.02	84.406		
7,598.6	7,392.0	5,891.0	5,352.0	27.6	43.9	-158.84	-2,361.8	-416.9	3,462.5	3,421.2	41.34	83.766		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 34D-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD															Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	-172.01	-164.9	-23.2	166.5								
100.0	100.0	100.0	100.0	0.1	0.1	-172.01	-164.9	-23.2	166.5	166.3	0.19	892.401					
200.0	200.0	200.0	200.0	0.3	0.3	-172.01	-164.9	-23.2	166.5	165.8	0.64	261.729					
300.0	300.0	300.0	300.0	0.5	0.5	-172.01	-164.9	-23.2	166.5	165.4	1.09	153.353					
400.0	400.0	400.0	400.0	0.8	0.8	-172.01	-164.9	-23.2	166.5	164.9	1.54	108.447					
500.0	500.0	500.0	500.0	1.0	1.0	-172.01	-164.9	-23.2	166.5	164.5	1.98	83.884					
600.0	600.0	600.0	600.0	1.2	1.2	-172.01	-164.9	-23.2	166.5	164.0	2.43	68.393					
700.0	700.0	700.0	700.0	1.4	1.4	-172.01	-164.9	-23.2	166.5	163.6	2.88	57.731					
800.0	800.0	800.0	800.0	1.7	1.7	-172.01	-164.9	-23.2	166.5	163.1	3.33	49.946					
900.0	900.0	900.0	900.0	1.9	1.9	-172.01	-164.9	-23.2	166.5	162.7	3.78	44.010					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-172.01	-164.9	-23.2	166.5	162.3	4.23	39.336					
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-172.01	-164.9	-23.2	166.5	161.9	4.57	36.434	CC, ES				
1,100.0	1,100.0	1,098.9	1,098.9	2.3	2.3	108.03	-165.0	-23.1	166.6	162.0	4.67	35.679					
1,175.0	1,174.9	1,170.6	1,170.5	2.5	2.5	108.53	-166.2	-22.4	168.8	163.8	4.95	34.086					
1,200.0	1,199.9	1,194.4	1,194.4	2.5	2.5	117.01	-167.0	-21.9	170.1	165.1	5.05	33.710					
1,300.0	1,299.4	1,289.3	1,289.1	2.8	2.7	133.94	-171.8	-19.1	180.7	175.3	5.45	33.145	SF				
1,400.0	1,398.1	1,382.3	1,381.7	3.0	2.9	141.02	-179.1	-14.9	199.3	193.4	5.87	33.941					
1,500.0	1,495.8	1,467.1	1,465.8	3.3	3.0	145.15	-189.3	-11.2	227.2	220.9	6.29	36.131					
1,600.0	1,591.9	1,547.2	1,544.7	3.7	3.2	148.07	-202.7	-8.7	265.3	258.6	6.71	39.515					
1,693.3	1,680.0	1,616.8	1,612.7	4.1	3.4	150.06	-217.4	-7.4	309.4	302.3	7.12	43.471					
1,700.0	1,686.3	1,621.6	1,617.4	4.2	3.5	150.17	-218.5	-7.3	312.9	305.7	7.15	43.756					
1,800.0	1,779.8	1,700.0	1,693.2	4.7	3.7	151.61	-238.6	-6.8	366.7	359.1	7.67	47.839					
1,900.0	1,873.2	1,757.0	1,747.7	5.3	3.9	152.41	-255.4	-7.1	423.9	415.7	8.15	51.993					
2,000.0	1,966.7	1,819.3	1,806.4	5.9	4.2	153.10	-275.8	-8.1	484.4	475.7	8.66	55.920					
2,100.0	2,060.2	1,878.0	1,861.2	6.5	4.5	153.61	-297.0	-9.5	547.8	538.6	9.17	59.712					
2,200.0	2,153.6	1,933.3	1,912.1	7.2	4.8	153.99	-318.8	-11.4	613.9	604.2	9.69	63.382					
2,300.0	2,247.1	2,000.0	1,972.3	7.8	5.3	154.35	-347.1	-14.3	682.7	672.4	10.23	66.705					
2,400.0	2,340.6	2,034.7	2,003.2	8.5	5.5	154.50	-362.8	-16.1	753.2	742.5	10.72	70.297					
2,500.0	2,434.0	2,081.0	2,044.0	9.2	5.9	154.67	-384.7	-18.8	826.0	814.8	11.23	73.550					
2,600.0	2,527.5	2,124.7	2,081.8	9.9	6.2	154.79	-406.3	-21.6	900.7	888.9	11.73	76.780					
2,700.0	2,620.9	2,165.8	2,116.8	10.5	6.6	154.89	-427.5	-24.6	977.0	964.8	12.24	79.799					
2,800.0	2,714.4	2,200.0	2,145.6	11.2	6.8	154.95	-445.9	-27.3	1,054.9	1,042.2	12.73	82.859					
2,900.0	2,807.9	2,241.2	2,179.7	11.9	7.2	155.02	-468.7	-30.7	1,134.2	1,120.9	13.25	85.619					
3,000.0	2,901.3	2,275.7	2,207.9	12.6	7.6	155.06	-488.5	-33.8	1,214.8	1,201.0	13.74	88.395					
3,100.0	2,994.8	2,300.0	2,227.4	13.3	7.8	155.08	-502.7	-36.1	1,296.6	1,282.4	14.21	91.228					
3,200.0	3,088.3	2,339.3	2,258.6	14.0	8.2	155.11	-526.3	-40.0	1,379.4	1,364.7	14.73	93.659					
3,300.0	3,181.7	2,374.7	2,286.2	14.7	8.6	155.13	-548.1	-43.7	1,463.3	1,448.1	15.23	96.069					
3,400.0	3,275.2	2,428.7	2,328.2	15.4	9.2	155.15	-581.6	-49.4	1,547.4	1,531.7	15.77	98.105					
3,500.0	3,368.7	2,482.8	2,370.2	16.1	9.8	155.17	-615.1	-55.1	1,631.6	1,615.3	16.31	100.033					
3,600.0	3,462.1	2,536.8	2,412.2	16.8	10.4	155.18	-648.6	-60.7	1,715.7	1,698.9	16.85	101.814					
3,700.0	3,555.6	2,590.9	2,454.3	17.5	11.0	155.20	-682.2	-66.4	1,799.8	1,782.5	17.39	103.480					
3,800.0	3,649.0	2,644.9	2,496.3	18.2	11.6	155.22	-715.7	-72.1	1,884.0	1,866.0	17.94	105.008					
3,900.0	3,742.5	2,699.0	2,538.3	18.9	12.2	155.23	-749.2	-77.8	1,968.1	1,949.6	18.49	106.452					
4,000.0	3,836.0	2,753.0	2,580.3	19.6	12.8	155.24	-782.7	-83.5	2,052.3	2,033.2	19.04	107.774					
4,100.0	3,929.4	2,807.1	2,622.3	20.3	13.4	155.25	-816.2	-89.2	2,136.4	2,116.8	19.59	109.028					
4,200.0	4,022.9	2,861.1	2,664.4	21.0	14.1	155.26	-849.7	-94.9	2,220.5	2,200.4	20.15	110.186					
4,300.0	4,116.4	2,915.1	2,706.4	21.7	14.7	155.27	-883.2	-100.6	2,304.7	2,283.9	20.71	111.282					
4,400.0	4,209.8	2,969.2	2,748.4	22.4	15.3	155.28	-916.7	-106.3	2,388.8	2,367.5	21.27	112.303					
4,419.3	4,227.9	2,979.6	2,756.5	22.6	15.4	155.28	-923.2	-107.4	2,405.0	2,383.6	21.38	112.494					
4,500.0	4,303.9	3,024.5	2,791.4	23.1	15.9	156.73	-951.1	-112.1	2,472.1	2,450.2	21.88	112.999					
4,600.0	4,399.5	3,083.7	2,837.4	23.5	16.6	158.20	-987.7	-118.3	2,552.6	2,530.2	22.49	113.508					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 34D-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	3,146.6	2,886.3	23.9	17.4	159.37	-1,026.7	-125.0	2,630.3	2,607.1	23.11	113.799		
4,800.0	4,594.8	3,213.0	2,937.9	24.3	18.1	160.31	-1,067.9	-132.0	2,704.7	2,681.0	23.73	113.979		
4,900.0	4,693.8	3,282.8	2,992.2	24.5	19.0	161.06	-1,111.2	-139.3	2,775.8	2,751.4	24.33	114.106		
5,000.0	4,793.4	3,355.8	3,048.9	24.7	19.8	161.65	-1,156.4	-147.0	2,843.3	2,818.4	24.89	114.227		
5,100.0	4,893.4	3,431.7	3,108.0	24.9	20.7	162.11	-1,203.5	-155.0	2,907.2	2,881.8	25.42	114.377		
5,113.6	4,907.0	3,442.3	3,116.2	24.9	20.8	-154.55	-1,210.1	-156.1	2,915.6	2,890.1	25.49	114.400		
5,200.0	4,993.4	3,509.4	3,168.4	24.9	21.6	-154.83	-1,251.7	-163.2	2,968.7	2,942.7	25.91	114.564		
5,300.0	5,093.4	3,587.2	3,228.8	25.0	22.6	-155.14	-1,299.9	-171.4	3,030.2	3,003.7	26.42	114.692		
5,400.0	5,193.4	3,664.9	3,289.3	25.1	23.5	-155.44	-1,348.1	-179.5	3,091.7	3,064.8	26.93	114.824		
5,500.0	5,293.4	3,742.7	3,349.7	25.2	24.4	-155.74	-1,396.3	-187.7	3,153.3	3,125.9	27.43	114.962		
5,600.0	5,393.4	3,820.4	3,410.2	25.3	25.3	-156.01	-1,444.5	-195.9	3,215.0	3,187.1	27.93	115.103		
5,700.0	5,493.4	3,898.2	3,470.6	25.4	26.2	-156.28	-1,492.7	-204.1	3,276.7	3,248.3	28.43	115.247		
5,800.0	5,593.4	3,975.9	3,531.1	25.5	27.2	-156.54	-1,541.0	-212.3	3,338.5	3,309.5	28.93	115.391		
5,900.0	5,693.4	4,053.6	3,591.5	25.6	28.1	-156.79	-1,589.2	-220.5	3,400.2	3,370.8	29.43	115.537		
6,000.0	5,793.4	4,131.4	3,652.0	25.7	29.0	-157.04	-1,637.4	-228.7	3,462.1	3,432.2	29.93	115.684		
6,100.0	5,893.4	4,209.1	3,712.4	25.8	29.9	-157.27	-1,685.6	-236.9	3,524.0	3,493.5	30.42	115.832		
6,200.0	5,993.4	4,286.9	3,772.8	26.0	30.8	-157.49	-1,733.8	-245.0	3,585.9	3,554.9	30.92	115.978		
6,300.0	6,093.4	4,364.6	3,833.3	26.1	31.8	-157.71	-1,782.0	-253.2	3,647.8	3,616.4	31.41	116.123		
6,400.0	6,193.4	4,442.4	3,893.7	26.2	32.7	-157.92	-1,830.2	-261.4	3,709.8	3,677.9	31.91	116.268		
6,500.0	6,293.4	4,520.2	3,954.1	26.3	33.6	-158.14	-1,878.4	-269.6	3,771.7	3,739.5	32.41	116.413		
6,600.0	6,393.4	4,598.0	4,014.5	26.4	34.5	-158.36	-1,926.6	-277.8	3,833.6	3,801.3	32.91	116.558		
6,700.0	6,493.4	4,675.8	4,074.9	26.5	35.4	-158.58	-1,974.8	-286.0	3,895.5	3,863.1	33.41	116.703		
6,800.0	6,593.4	4,753.6	4,135.3	26.6	36.3	-158.79	-2,023.0	-294.2	3,957.4	3,925.0	33.91	116.848		
6,900.0	6,693.4	4,831.4	4,195.7	26.7	37.2	-159.01	-2,071.2	-302.4	4,019.3	3,986.9	34.41	116.993		
7,000.0	6,793.4	4,909.2	4,256.1	26.9	38.1	-159.23	-2,119.4	-310.6	4,081.2	4,048.8	34.91	117.138		
7,100.0	6,893.4	4,987.0	4,316.5	27.0	39.0	-159.45	-2,167.6	-318.8	4,143.1	4,110.7	35.41	117.283		
7,200.0	6,993.4	5,064.8	4,376.9	27.1	39.9	-159.67	-2,215.8	-327.0	4,205.0	4,172.6	35.91	117.428		
7,300.0	7,093.4	5,142.6	4,437.3	27.2	40.8	-159.89	-2,264.0	-335.2	4,266.9	4,234.5	36.41	117.573		
7,400.0	7,193.4	5,220.4	4,497.7	27.4	41.7	-160.11	-2,312.2	-343.4	4,328.8	4,296.4	36.91	117.718		
7,500.0	7,293.4	5,298.2	4,558.1	27.5	42.6	-160.33	-2,360.4	-351.6	4,390.7	4,358.3	37.41	117.863		
7,598.6	7,392.0	5,376.0	4,618.5	27.6	43.5	-160.55	-2,408.6	-359.8	4,452.6	4,420.2	37.91	118.008		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 41C-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.23	50.0	0.2	50.0					
100.0	100.0	100.0	100.0	0.1	0.1	0.23	50.0	0.2	50.0	49.8	0.19	267.946		
200.0	200.0	200.0	200.0	0.3	0.3	0.23	50.0	0.2	50.0	49.4	0.64	78.585		
300.0	300.0	300.0	300.0	0.5	0.5	0.23	50.0	0.2	50.0	48.9	1.09	46.045		
400.0	400.0	400.0	400.0	0.8	0.8	0.23	50.0	0.2	50.0	48.5	1.54	32.562		
500.0	500.0	500.0	500.0	1.0	1.0	0.23	50.0	0.2	50.0	48.0	1.98	25.186		
600.0	600.0	600.0	600.0	1.2	1.2	0.23	50.0	0.2	50.0	47.6	2.43	20.535		
700.0	700.0	700.0	700.0	1.4	1.4	0.23	50.0	0.2	50.0	47.1	2.88	17.334		
800.0	800.0	800.0	800.0	1.7	1.7	0.23	50.0	0.2	50.0	46.7	3.33	14.996		
900.0	900.0	900.0	900.0	1.9	1.9	0.23	50.0	0.2	50.0	46.2	3.78	13.214		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	0.23	50.0	0.2	50.0	45.8	4.23	11.811		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	0.23	50.0	0.2	50.0	45.4	4.57	10.939		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	-79.99	50.0	0.2	50.0	45.3	4.68	10.676		
1,106.3	1,106.3	1,106.1	1,106.1	2.4	2.4	-80.10	50.0	0.2	49.9	45.2	4.71	10.614 CC, ES		
1,175.0	1,174.9	1,173.0	1,173.0	2.5	2.5	-82.16	51.4	1.0	51.0	46.0	5.00	10.199		
1,200.0	1,199.9	1,197.3	1,197.3	2.5	2.6	-74.98	52.5	1.6	51.7	46.6	5.10	10.134		
1,300.0	1,299.4	1,294.6	1,294.1	2.8	2.8	-63.44	60.1	5.7	55.2	49.7	5.55	9.949		
1,400.0	1,398.1	1,391.7	1,390.2	3.0	3.0	-61.72	72.7	12.7	59.5	53.5	6.03	9.868		
1,500.0	1,495.8	1,488.8	1,485.2	3.3	3.3	-62.88	90.3	22.3	64.6	58.0	6.57	9.823		
1,600.0	1,591.9	1,585.8	1,578.7	3.7	3.6	-65.07	112.7	34.6	70.5	63.2	7.23	9.746		
1,693.3	1,680.0	1,676.2	1,664.4	4.1	4.0	-67.44	138.0	48.4	76.8	68.8	8.00	9.601		
1,700.0	1,686.3	1,682.8	1,670.5	4.2	4.1	-67.69	140.0	49.5	77.3	69.2	8.06	9.588		
1,800.0	1,779.8	1,779.5	1,760.2	4.7	4.6	-69.36	171.9	67.0	86.5	77.4	9.05	9.556 SF		
1,900.0	1,873.2	1,875.6	1,846.9	5.3	5.2	-67.94	208.1	86.9	99.0	88.9	10.10	9.807		
2,000.0	1,966.7	1,970.4	1,929.9	5.9	5.9	-64.60	248.2	108.8	115.2	104.0	11.14	10.337		
2,100.0	2,060.2	2,067.3	2,013.0	6.5	6.7	-60.77	292.0	132.8	134.2	122.0	12.17	11.025		
2,200.0	2,153.6	2,165.1	2,096.7	7.2	7.6	-57.83	336.3	157.1	153.8	140.6	13.20	11.646		
2,300.0	2,247.1	2,262.9	2,180.5	7.8	8.5	-55.57	380.7	181.4	173.6	159.4	14.24	12.197		
2,400.0	2,340.6	2,360.7	2,264.2	8.5	9.4	-53.76	425.0	205.7	193.7	178.4	15.27	12.685		
2,500.0	2,434.0	2,458.5	2,347.9	9.2	10.3	-52.30	469.3	230.0	213.9	197.6	16.31	13.117		
2,600.0	2,527.5	2,556.3	2,431.6	9.9	11.3	-51.09	513.7	254.3	234.3	216.9	17.35	13.502		
2,700.0	2,620.9	2,654.1	2,515.4	10.5	12.2	-50.07	558.0	278.6	254.7	236.3	18.39	13.846		
2,800.0	2,714.4	2,751.9	2,599.1	11.2	13.1	-49.20	602.3	302.9	275.2	255.7	19.44	14.154		
2,900.0	2,807.9	2,849.7	2,682.8	11.9	14.1	-48.46	646.6	327.2	295.7	275.2	20.49	14.431		
3,000.0	2,901.3	2,947.5	2,766.5	12.6	15.0	-47.81	691.0	351.5	316.3	294.7	21.54	14.682		
3,100.0	2,994.8	3,045.3	2,850.3	13.3	16.0	-47.24	735.3	375.8	336.9	314.3	22.60	14.910		
3,200.0	3,088.3	3,143.1	2,934.0	14.0	17.0	-46.73	779.6	400.1	357.5	333.9	23.65	15.117		
3,300.0	3,181.7	3,240.9	3,017.7	14.7	17.9	-46.28	823.9	424.3	378.2	353.5	24.71	15.307		
3,400.0	3,275.2	3,338.7	3,101.4	15.4	18.9	-45.88	868.3	448.6	398.9	373.1	25.77	15.481		
3,500.0	3,368.7	3,436.5	3,185.2	16.1	19.9	-45.52	912.6	472.9	419.6	392.8	26.83	15.641		
3,600.0	3,462.1	3,534.3	3,268.9	16.8	20.8	-45.19	956.9	497.2	440.3	412.4	27.89	15.789		
3,700.0	3,555.6	3,632.1	3,352.6	17.5	21.8	-44.89	1,001.2	521.5	461.0	432.1	28.95	15.925		
3,800.0	3,649.0	3,729.9	3,436.4	18.2	22.8	-44.62	1,045.6	545.8	481.8	451.7	30.01	16.052		
3,900.0	3,742.5	3,827.7	3,520.1	18.9	23.7	-44.36	1,089.9	570.1	502.5	471.4	31.08	16.170		
4,000.0	3,836.0	3,925.5	3,603.8	19.6	24.7	-44.13	1,134.2	594.4	523.3	491.1	32.14	16.280		
4,100.0	3,929.4	4,023.3	3,687.5	20.3	25.7	-43.92	1,178.5	618.7	544.0	510.8	33.21	16.383		
4,200.0	4,022.9	4,121.2	3,771.3	21.0	26.6	-43.72	1,222.9	643.0	564.8	530.5	34.27	16.480		
4,300.0	4,116.4	4,219.0	3,855.0	21.7	27.6	-43.54	1,267.2	667.3	585.6	550.2	35.34	16.570		
4,400.0	4,209.8	4,316.8	3,938.7	22.4	28.6	-43.37	1,311.5	691.6	606.4	570.0	36.41	16.655		
4,419.3	4,227.9	4,335.6	3,954.9	22.6	28.8	-43.33	1,320.1	696.2	610.4	573.8	36.61	16.671		
4,500.0	4,303.9	4,414.3	4,022.2	23.1	29.6	-43.48	1,355.7	715.8	628.4	590.9	37.46	16.776		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design		Valley Farms G - Valley Farms G 41C-14-06-92 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,600.0	4,399.5	4,546.7	4,137.2	23.5	30.7	-43.34	1,413.2	747.3	652.2	613.8	38.34	17.009			
4,700.0	4,496.6	4,698.0	4,274.4	23.9	31.7	-43.17	1,469.0	777.9	672.3	633.2	39.09	17.197			
4,800.0	4,594.8	4,853.2	4,420.7	24.3	32.5	-43.06	1,514.4	802.7	688.2	648.5	39.70	17.334			
4,900.0	4,693.8	5,011.4	4,574.1	24.5	33.1	-42.99	1,547.9	821.1	699.5	659.4	40.16	17.417			
5,000.0	4,793.4	5,171.7	4,732.6	24.7	33.5	-42.98	1,568.5	832.4	706.2	665.7	40.46	17.453			
5,100.0	4,893.4	5,332.7	4,893.4	24.9	33.8	-43.01	1,575.4	836.2	708.1	667.5	40.60	17.439			
5,113.6	4,907.0	5,346.3	4,907.0	24.9	33.8	0.28	1,575.4	836.2	708.0	667.4	40.60	17.439			
5,200.0	4,993.4	5,432.7	4,993.4	24.9	33.8	0.28	1,575.4	836.2	708.0	667.2	40.78	17.363			
5,300.0	5,093.4	5,532.7	5,093.4	25.0	33.9	0.28	1,575.4	836.2	708.0	667.0	41.01	17.267			
5,400.0	5,193.4	5,632.7	5,193.4	25.1	34.0	0.28	1,575.4	836.2	708.0	666.8	41.24	17.170			
5,500.0	5,293.4	5,732.7	5,293.4	25.2	34.0	0.28	1,575.4	836.2	708.0	666.6	41.47	17.073			
5,600.0	5,393.4	5,832.7	5,393.4	25.3	34.1	0.28	1,575.4	836.2	708.0	666.3	41.71	16.975			
5,700.0	5,493.4	5,932.7	5,493.4	25.4	34.2	0.28	1,575.4	836.2	708.0	666.1	41.95	16.878			
5,800.0	5,593.4	6,032.7	5,593.4	25.5	34.3	0.28	1,575.4	836.2	708.0	665.8	42.20	16.780			
5,900.0	5,693.4	6,132.7	5,693.4	25.6	34.3	0.28	1,575.4	836.2	708.0	665.6	42.44	16.681			
6,000.0	5,793.4	6,232.7	5,793.4	25.7	34.4	0.28	1,575.4	836.2	708.0	665.3	42.70	16.583			
6,100.0	5,893.4	6,332.7	5,893.4	25.8	34.5	0.28	1,575.4	836.2	708.0	665.1	42.95	16.485			
6,200.0	5,993.4	6,432.7	5,993.4	26.0	34.6	0.28	1,575.4	836.2	708.0	664.8	43.21	16.386			
6,300.0	6,093.4	6,532.7	6,093.4	26.1	34.6	0.28	1,575.4	836.2	708.0	664.6	43.47	16.288			
6,400.0	6,193.4	6,632.7	6,193.4	26.2	34.7	0.28	1,575.4	836.2	708.0	664.3	43.73	16.189			
6,500.0	6,293.4	6,732.7	6,293.4	26.3	34.8	0.28	1,575.4	836.2	708.0	664.0	44.00	16.091			
6,600.0	6,393.4	6,832.7	6,393.4	26.4	34.9	0.28	1,575.4	836.2	708.0	663.8	44.27	15.993			
6,700.0	6,493.4	6,932.7	6,493.4	26.5	35.0	0.28	1,575.4	836.2	708.0	663.5	44.54	15.895			
6,800.0	6,593.4	7,032.7	6,593.4	26.6	35.1	0.28	1,575.4	836.2	708.0	663.2	44.82	15.797			
6,900.0	6,693.4	7,132.7	6,693.4	26.7	35.1	0.28	1,575.4	836.2	708.0	662.9	45.10	15.699			
7,000.0	6,793.4	7,232.7	6,793.4	26.9	35.2	0.28	1,575.4	836.2	708.0	662.6	45.38	15.602			
7,100.0	6,893.4	7,332.7	6,893.4	27.0	35.3	0.28	1,575.4	836.2	708.0	662.4	45.66	15.505			
7,200.0	6,993.4	7,432.7	6,993.4	27.1	35.4	0.28	1,575.4	836.2	708.0	662.1	45.95	15.408			
7,300.0	7,093.4	7,532.7	7,093.4	27.2	35.5	0.28	1,575.4	836.2	708.0	661.8	46.24	15.312			
7,400.0	7,193.4	7,632.7	7,193.4	27.4	35.6	0.28	1,575.4	836.2	708.0	661.5	46.53	15.216			
7,500.0	7,293.4	7,732.7	7,293.4	27.5	35.7	0.28	1,575.4	836.2	708.0	661.2	46.83	15.120			
7,560.3	7,353.7	7,793.0	7,353.7	27.6	35.7	0.28	1,575.4	836.2	708.0	661.0	47.01	15.063			
7,598.6	7,392.0	7,817.3	7,378.0	27.6	35.8	0.28	1,575.4	836.2	708.2	661.1	47.10	15.036			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 41D-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
0.0	0.0	0.0	0.0	0.0	0.0	0.23	30.0	0.1	30.0								
100.0	100.0	100.0	100.0	0.1	0.1	0.23	30.0	0.1	30.0	29.8	0.19	160.767					
200.0	200.0	200.0	200.0	0.3	0.3	0.23	30.0	0.1	30.0	29.4	0.64	47.151					
300.0	300.0	300.0	300.0	0.5	0.5	0.23	30.0	0.1	30.0	28.9	1.09	27.627					
400.0	400.0	400.0	400.0	0.8	0.8	0.23	30.0	0.1	30.0	28.5	1.54	19.537					
500.0	500.0	500.0	500.0	1.0	1.0	0.23	30.0	0.1	30.0	28.0	1.98	15.112					
600.0	600.0	600.0	600.0	1.2	1.2	0.23	30.0	0.1	30.0	27.6	2.43	12.321					
700.0	700.0	700.0	700.0	1.4	1.4	0.23	30.0	0.1	30.0	27.1	2.88	10.400					
800.0	800.0	800.0	800.0	1.7	1.7	0.23	30.0	0.1	30.0	26.7	3.33	8.998					
900.0	900.0	900.0	900.0	1.9	1.9	0.23	30.0	0.1	30.0	26.2	3.78	7.928					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	0.23	30.0	0.1	30.0	25.8	4.23	7.086					
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	0.23	30.0	0.1	30.0	25.4	4.57	6.564 CC					
1,100.0	1,100.0	1,099.8	1,099.8	2.3	2.3	-79.80	30.1	0.3	30.0	25.4	4.68	6.423 ES					
1,175.0	1,174.9	1,174.2	1,174.2	2.5	2.5	-80.23	31.3	2.8	30.7	25.8	4.99	6.164					
1,200.0	1,199.9	1,198.8	1,198.7	2.5	2.6	-72.29	32.0	4.3	31.1	26.0	5.10	6.108					
1,300.0	1,299.4	1,297.2	1,296.5	2.8	2.8	-58.20	38.4	11.9	32.9	27.3	5.55	5.928					
1,400.0	1,398.1	1,395.4	1,393.5	3.0	3.0	-54.72	49.8	22.3	35.1	29.0	6.03	5.816					
1,500.0	1,495.8	1,493.6	1,489.4	3.3	3.3	-54.83	66.3	35.6	37.7	31.2	6.57	5.739					
1,600.0	1,591.9	1,591.7	1,583.8	3.7	3.7	-56.57	87.8	51.6	41.0	33.7	7.23	5.663					
1,693.3	1,680.0	1,683.1	1,670.1	4.1	4.1	-58.91	112.2	69.0	44.5	36.5	8.00	5.569					
1,700.0	1,686.3	1,689.7	1,676.3	4.2	4.1	-59.16	114.1	70.3	44.8	36.8	8.06	5.561 SF					
1,800.0	1,779.8	1,787.5	1,766.5	4.7	4.7	-59.89	145.2	91.6	51.3	42.3	9.03	5.687					
1,900.0	1,873.2	1,885.5	1,854.6	5.3	5.3	-56.72	180.7	115.4	61.8	51.8	9.98	6.190					
2,000.0	1,966.7	1,984.7	1,943.4	5.9	6.1	-53.79	217.7	139.9	73.3	62.4	10.95	6.700					
2,100.0	2,060.2	2,084.0	2,032.2	6.5	6.8	-51.67	254.7	164.5	85.0	73.1	11.93	7.129					
2,200.0	2,153.6	2,183.3	2,121.0	7.2	7.6	-50.06	291.6	189.1	96.8	83.9	12.92	7.492					
2,300.0	2,247.1	2,282.5	2,209.8	7.8	8.4	-48.80	328.6	213.7	108.6	94.7	13.92	7.802					
2,400.0	2,340.6	2,381.8	2,298.6	8.5	9.2	-47.79	365.6	238.3	120.5	105.5	14.93	8.068					
2,500.0	2,434.0	2,481.1	2,387.4	9.2	10.0	-46.96	402.5	262.9	132.4	116.4	15.95	8.300					
2,600.0	2,527.5	2,580.4	2,476.2	9.9	10.9	-46.27	439.5	287.4	144.3	127.3	16.97	8.501					
2,700.0	2,620.9	2,679.6	2,565.0	10.5	11.7	-45.68	476.5	312.0	156.2	138.2	18.00	8.679					
2,800.0	2,714.4	2,778.9	2,653.8	11.2	12.6	-45.17	513.5	336.6	168.2	149.1	19.03	8.836					
2,900.0	2,807.9	2,878.2	2,742.6	11.9	13.4	-44.74	550.4	361.2	180.1	160.0	20.07	8.976					
3,000.0	2,901.3	2,977.5	2,831.4	12.6	14.2	-44.35	587.4	385.8	192.1	171.0	21.11	9.101					
3,100.0	2,994.8	3,076.7	2,920.1	13.3	15.1	-44.02	624.4	410.4	204.1	181.9	22.15	9.214					
3,200.0	3,088.3	3,176.0	3,008.9	14.0	15.9	-43.72	661.3	435.0	216.0	192.9	23.19	9.316					
3,300.0	3,181.7	3,275.3	3,097.7	14.7	16.8	-43.45	698.3	459.5	228.0	203.8	24.24	9.409					
3,400.0	3,275.2	3,374.6	3,186.5	15.4	17.7	-43.20	735.3	484.1	240.0	214.7	25.28	9.493					
3,500.0	3,368.7	3,473.8	3,275.3	16.1	18.5	-42.99	772.2	508.7	252.0	225.7	26.33	9.571					
3,600.0	3,462.1	3,573.1	3,364.1	16.8	19.4	-42.79	809.2	533.3	264.0	236.6	27.38	9.642					
3,700.0	3,555.6	3,672.4	3,452.9	17.5	20.2	-42.60	846.2	557.9	276.0	247.6	28.43	9.708					
3,800.0	3,649.0	3,771.7	3,541.7	18.2	21.1	-42.44	883.2	582.5	288.0	258.5	29.49	9.768					
3,900.0	3,742.5	3,870.9	3,630.5	18.9	22.0	-42.28	920.1	607.1	300.0	269.5	30.54	9.824					
4,000.0	3,836.0	3,970.2	3,719.3	19.6	22.8	-42.14	957.1	631.6	312.0	280.4	31.59	9.877					
4,100.0	3,929.4	4,069.5	3,808.1	20.3	23.7	-42.01	994.1	656.2	324.0	291.4	32.65	9.925					
4,200.0	4,022.9	4,168.7	3,896.9	21.0	24.5	-41.89	1,031.0	680.8	336.1	302.4	33.70	9.971					
4,300.0	4,116.4	4,268.0	3,985.7	21.7	25.4	-41.78	1,068.0	705.4	348.1	313.3	34.76	10.013					
4,400.0	4,209.8	4,373.5	4,080.2	22.4	26.3	-41.70	1,107.0	731.3	359.8	324.0	35.84	10.039					
4,419.3	4,227.9	4,396.3	4,100.9	22.6	26.5	-41.73	1,115.0	736.7	361.7	325.6	36.07	10.028					
4,500.0	4,303.9	4,492.1	4,188.8	23.1	27.0	-42.03	1,146.5	757.6	368.8	331.8	36.94	9.984					
4,600.0	4,399.5	4,611.3	4,300.8	23.5	27.7	-42.35	1,180.5	780.2	376.3	338.5	37.83	9.949					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 41D-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	4,731.0	4,415.6	23.9	28.2	-42.61	1,208.8	799.0	382.5	344.0	38.57	9.917		
4,800.0	4,594.8	4,851.2	4,532.7	24.3	28.7	-42.83	1,231.0	813.8	387.4	348.2	39.17	9.888		
4,900.0	4,693.8	4,971.6	4,651.6	24.5	29.1	-42.99	1,247.2	824.5	390.7	351.1	39.62	9.862		
5,000.0	4,793.4	5,092.2	4,771.6	24.7	29.3	-43.11	1,257.0	831.1	392.7	352.8	39.92	9.837		
5,100.0	4,893.4	5,213.0	4,892.2	24.9	29.5	-43.18	1,260.5	833.4	393.2	353.1	40.06	9.815		
5,113.6	4,907.0	5,227.7	4,907.0	24.9	29.5	0.11	1,260.6	833.5	393.2	353.1	40.07	9.813		
5,200.0	4,993.4	5,314.1	4,993.4	24.9	29.5	0.11	1,260.6	833.5	393.2	352.9	40.25	9.769		
5,300.0	5,093.4	5,414.1	5,093.4	25.0	29.6	0.11	1,260.6	833.5	393.2	352.7	40.48	9.713		
5,400.0	5,193.4	5,514.1	5,193.4	25.1	29.7	0.11	1,260.6	833.5	393.2	352.4	40.72	9.656		
5,500.0	5,293.4	5,614.1	5,293.4	25.2	29.8	0.11	1,260.6	833.5	393.2	352.2	40.96	9.600		
5,600.0	5,393.4	5,714.1	5,393.4	25.3	29.8	0.11	1,260.6	833.5	393.2	352.0	41.20	9.543		
5,700.0	5,493.4	5,814.1	5,493.4	25.4	29.9	0.11	1,260.6	833.5	393.2	351.7	41.45	9.486		
5,800.0	5,593.4	5,914.1	5,593.4	25.5	30.0	0.11	1,260.6	833.5	393.2	351.5	41.69	9.430		
5,900.0	5,693.4	6,014.1	5,693.4	25.6	30.1	0.11	1,260.6	833.5	393.2	351.2	41.95	9.373		
6,000.0	5,793.4	6,114.1	5,793.4	25.7	30.2	0.11	1,260.6	833.5	393.2	351.0	42.20	9.316		
6,100.0	5,893.4	6,214.1	5,893.4	25.8	30.3	0.11	1,260.6	833.5	393.2	350.7	42.46	9.259		
6,200.0	5,993.4	6,314.1	5,993.4	26.0	30.4	0.11	1,260.6	833.5	393.2	350.4	42.73	9.202		
6,300.0	6,093.4	6,414.1	6,093.4	26.1	30.5	0.11	1,260.6	833.5	393.2	350.2	42.99	9.145		
6,400.0	6,193.4	6,514.1	6,193.4	26.2	30.5	0.11	1,260.6	833.5	393.2	349.9	43.26	9.088		
6,500.0	6,293.4	6,614.1	6,293.4	26.3	30.6	0.11	1,260.6	833.5	393.2	349.6	43.53	9.031		
6,600.0	6,393.4	6,714.1	6,393.4	26.4	30.7	0.11	1,260.6	833.5	393.2	349.4	43.81	8.975		
6,700.0	6,493.4	6,814.1	6,493.4	26.5	30.8	0.11	1,260.6	833.5	393.2	349.1	44.09	8.918		
6,800.0	6,593.4	6,914.1	6,593.4	26.6	30.9	0.11	1,260.6	833.5	393.2	348.8	44.37	8.862		
6,900.0	6,693.4	7,014.1	6,693.4	26.7	31.0	0.11	1,260.6	833.5	393.2	348.5	44.65	8.805		
7,000.0	6,793.4	7,114.1	6,793.4	26.9	31.1	0.11	1,260.6	833.5	393.2	348.2	44.94	8.749		
7,100.0	6,893.4	7,214.1	6,893.4	27.0	31.2	0.11	1,260.6	833.5	393.2	347.9	45.23	8.693		
7,200.0	6,993.4	7,314.1	6,993.4	27.1	31.3	0.11	1,260.6	833.5	393.2	347.6	45.52	8.638		
7,300.0	7,093.4	7,414.1	7,093.4	27.2	31.4	0.11	1,260.6	833.5	393.2	347.4	45.81	8.582		
7,400.0	7,193.4	7,514.1	7,193.4	27.4	31.6	0.11	1,260.6	833.5	393.2	347.1	46.11	8.527		
7,500.0	7,293.4	7,614.1	7,293.4	27.5	31.7	0.11	1,260.6	833.5	393.2	346.8	46.41	8.472		
7,562.8	7,356.2	7,677.0	7,356.2	27.6	31.7	0.11	1,260.6	833.5	393.2	346.6	46.59	8.438		
7,598.6	7,392.0	7,704.7	7,384.0	27.6	31.8	0.11	1,260.6	833.5	393.2	346.6	46.69	8.422		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 42B-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-30.0	-0.1	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-30.0	-0.1	30.0	29.8	0.19	160.767		
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-30.0	-0.1	30.0	29.4	0.64	47.151		
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-30.0	-0.1	30.0	28.9	1.09	27.627		
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-30.0	-0.1	30.0	28.5	1.54	19.537		
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-30.0	-0.1	30.0	28.0	1.98	15.112		
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-30.0	-0.1	30.0	27.6	2.43	12.321		
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-30.0	-0.1	30.0	27.1	2.88	10.400		
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-30.0	-0.1	30.0	26.7	3.33	8.998		
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-30.0	-0.1	30.0	26.2	3.78	7.928		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-30.0	-0.1	30.0	25.8	4.23	7.086		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-30.0	-0.1	30.0	25.4	4.57	6.564 CC		
1,100.0	1,100.0	1,100.1	1,100.1	2.3	2.3	100.23	-30.0	0.1	30.0	25.3	4.68	6.416		
1,175.0	1,174.9	1,175.2	1,175.2	2.5	2.5	100.16	-29.6	2.9	30.1	25.2	4.98	6.050		
1,200.0	1,199.9	1,200.6	1,200.4	2.5	2.5	108.29	-29.3	4.6	30.2	25.2	5.09	5.940 ES		
1,300.0	1,299.4	1,301.8	1,301.2	2.8	2.8	122.82	-25.3	14.1	31.0	25.5	5.55	5.588		
1,400.0	1,398.1	1,403.1	1,401.1	3.0	3.0	126.31	-17.0	28.2	32.5	26.4	6.05	5.367		
1,500.0	1,495.8	1,504.4	1,499.8	3.3	3.4	125.83	-4.4	46.6	34.7	28.0	6.62	5.231		
1,600.0	1,591.9	1,605.5	1,597.0	3.7	3.7	123.50	12.4	69.4	37.7	30.4	7.33	5.141 SF		
1,693.3	1,680.0	1,698.6	1,685.5	4.1	4.2	123.80	29.7	92.3	42.8	34.7	8.10	5.280		
1,700.0	1,686.3	1,705.4	1,691.9	4.2	4.2	123.94	30.9	93.9	43.3	35.1	8.16	5.301		
1,800.0	1,779.8	1,805.1	1,786.8	4.7	4.7	125.76	49.5	118.5	50.6	41.5	9.06	5.579		
1,900.0	1,873.2	1,904.8	1,881.6	5.3	5.2	127.12	68.1	143.0	57.9	47.9	10.01	5.786		
2,000.0	1,966.7	2,004.5	1,976.5	5.9	5.8	128.18	86.6	167.5	65.3	54.3	10.98	5.943		
2,100.0	2,060.2	2,104.2	2,071.4	6.5	6.3	129.02	105.2	192.0	72.7	60.7	11.98	6.065		
2,200.0	2,153.6	2,204.0	2,166.2	7.2	6.9	129.70	123.7	216.6	80.1	67.1	12.99	6.162		
2,300.0	2,247.1	2,303.7	2,261.1	7.8	7.5	130.27	142.3	241.1	87.5	73.5	14.02	6.240		
2,400.0	2,340.6	2,403.4	2,355.9	8.5	8.1	130.75	160.9	265.6	94.9	79.8	15.06	6.303		
2,500.0	2,434.0	2,503.1	2,450.8	9.2	8.7	131.16	179.4	290.2	102.3	86.2	16.10	6.356		
2,600.0	2,527.5	2,602.8	2,545.7	9.9	9.3	131.52	198.0	314.7	109.7	92.6	17.15	6.400		
2,700.0	2,620.9	2,702.6	2,640.5	10.5	9.9	131.83	216.5	339.2	117.2	99.0	18.20	6.438		
2,800.0	2,714.4	2,802.3	2,735.4	11.2	10.5	132.10	235.1	363.8	124.6	105.4	19.26	6.471		
2,900.0	2,807.9	2,902.0	2,830.2	11.9	11.1	132.34	253.7	388.3	132.1	111.7	20.32	6.498		
3,000.0	2,901.3	3,001.7	2,925.1	12.6	11.7	132.56	272.2	412.8	139.5	118.1	21.38	6.523		
3,100.0	2,994.8	3,101.5	3,019.9	13.3	12.3	132.75	290.8	437.3	146.9	124.5	22.45	6.544		
3,200.0	3,088.3	3,201.2	3,114.8	14.0	12.9	132.93	309.3	461.9	154.4	130.9	23.52	6.563		
3,300.0	3,181.7	3,300.9	3,209.7	14.7	13.5	133.09	327.9	486.4	161.8	137.2	24.59	6.580		
3,400.0	3,275.2	3,400.6	3,304.5	15.4	14.1	133.23	346.5	510.9	169.3	143.6	25.66	6.595		
3,500.0	3,368.7	3,500.3	3,399.4	16.1	14.8	133.37	365.0	535.5	176.7	150.0	26.74	6.609		
3,600.0	3,462.1	3,600.1	3,494.2	16.8	15.4	133.49	383.6	560.0	184.2	156.3	27.81	6.621		
3,700.0	3,555.6	3,699.8	3,589.1	17.5	16.0	133.60	402.1	584.5	191.6	162.7	28.89	6.632		
3,800.0	3,649.0	3,799.5	3,684.0	18.2	16.6	133.71	420.7	609.0	199.1	169.1	29.97	6.642		
3,900.0	3,742.5	3,899.2	3,778.8	18.9	17.2	133.80	439.3	633.6	206.5	175.5	31.05	6.652		
4,000.0	3,836.0	3,998.9	3,873.7	19.6	17.9	133.89	457.8	658.1	214.0	181.8	32.12	6.660		
4,100.0	3,929.4	4,098.7	3,968.5	20.3	18.5	133.98	476.4	682.6	221.4	188.2	33.20	6.668		
4,200.0	4,022.9	4,198.4	4,063.4	21.0	19.1	134.06	494.9	707.2	228.9	194.6	34.29	6.675		
4,300.0	4,116.4	4,298.1	4,158.3	21.7	19.7	134.13	513.5	731.7	236.3	200.9	35.37	6.682		
4,400.0	4,209.8	4,397.8	4,253.1	22.4	20.4	134.20	532.1	756.2	243.8	207.3	36.45	6.688		
4,419.3	4,227.9	4,417.1	4,271.4	22.6	20.5	134.21	535.6	761.0	245.2	208.5	36.66	6.689		
4,500.0	4,303.9	4,495.8	4,346.3	23.1	20.9	134.13	550.2	780.2	250.1	212.6	37.53	6.664		
4,600.0	4,399.5	4,588.6	4,435.7	23.5	21.4	133.91	565.5	800.4	254.9	216.6	38.38	6.642		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 42B-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
4,700.0	4,496.6	4,681.5	4,526.1	23.9	21.7	133.72	578.1	817.1	258.9	219.8	39.10	6.622					
4,800.0	4,594.8	4,774.3	4,617.4	24.3	22.0	133.57	588.1	830.3	262.0	222.3	39.69	6.602					
4,900.0	4,693.8	4,867.1	4,709.5	24.5	22.3	133.45	595.4	839.9	264.2	224.1	40.14	6.582					
5,000.0	4,793.4	4,960.0	4,802.0	24.7	22.4	133.37	600.0	846.0	265.5	225.1	40.46	6.563					
5,100.0	4,893.4	5,052.8	4,894.7	24.9	22.6	133.30	601.8	848.5	266.0	225.3	40.65	6.543					
5,113.6	4,907.0	5,065.4	4,907.4	24.9	22.6	176.59	601.9	848.5	266.0	225.3	40.67	6.540					
5,144.2	4,937.6	5,095.6	4,937.6	24.9	22.6	176.59	601.9	848.5	266.0	225.2	40.73	6.530					
5,200.0	4,993.4	5,151.4	4,993.4	24.9	22.7	176.59	601.9	848.5	266.0	225.1	40.85	6.510					
5,300.0	5,093.4	5,251.4	5,093.4	25.0	22.8	176.59	601.9	848.5	266.0	224.9	41.09	6.473					
5,400.0	5,193.4	5,351.4	5,193.4	25.1	22.9	176.59	601.9	848.5	266.0	224.6	41.32	6.436					
5,500.0	5,293.4	5,451.4	5,293.4	25.2	23.0	176.59	601.9	848.5	266.0	224.4	41.56	6.399					
5,600.0	5,393.4	5,551.4	5,393.4	25.3	23.1	176.59	601.9	848.5	266.0	224.2	41.81	6.362					
5,700.0	5,493.4	5,651.4	5,493.4	25.4	23.2	176.59	601.9	848.5	266.0	223.9	42.06	6.324					
5,800.0	5,593.4	5,751.4	5,593.4	25.5	23.3	176.59	601.9	848.5	266.0	223.7	42.31	6.287					
5,900.0	5,693.4	5,851.4	5,693.4	25.6	23.4	176.59	601.9	848.5	266.0	223.4	42.56	6.249					
6,000.0	5,793.4	5,951.4	5,793.4	25.7	23.5	176.59	601.9	848.5	266.0	223.1	42.82	6.211					
6,100.0	5,893.4	6,051.4	5,893.4	25.8	23.7	176.59	601.9	848.5	266.0	222.9	43.08	6.174					
6,200.0	5,993.4	6,151.4	5,993.4	26.0	23.8	176.59	601.9	848.5	266.0	222.6	43.34	6.136					
6,300.0	6,093.4	6,251.4	6,093.4	26.1	23.9	176.59	601.9	848.5	266.0	222.4	43.61	6.099					
6,400.0	6,193.4	6,351.4	6,193.4	26.2	24.0	176.59	601.9	848.5	266.0	222.1	43.88	6.061					
6,500.0	6,293.4	6,451.4	6,293.4	26.3	24.1	176.59	601.9	848.5	266.0	221.8	44.15	6.024					
6,600.0	6,393.4	6,551.4	6,393.4	26.4	24.3	176.59	601.9	848.5	266.0	221.5	44.43	5.986					
6,700.0	6,493.4	6,651.4	6,493.4	26.5	24.4	176.59	601.9	848.5	266.0	221.3	44.71	5.949					
6,800.0	6,593.4	6,751.4	6,593.4	26.6	24.5	176.59	601.9	848.5	266.0	221.0	44.99	5.912					
6,900.0	6,693.4	6,851.4	6,693.4	26.7	24.7	176.59	601.9	848.5	266.0	220.7	45.27	5.875					
7,000.0	6,793.4	6,951.4	6,793.4	26.9	24.8	176.59	601.9	848.5	266.0	220.4	45.56	5.838					
7,100.0	6,893.4	7,051.4	6,893.4	27.0	24.9	176.59	601.9	848.5	266.0	220.1	45.85	5.801					
7,200.0	6,993.4	7,151.4	6,993.4	27.1	25.1	176.59	601.9	848.5	266.0	219.8	46.14	5.764					
7,300.0	7,093.4	7,251.4	7,093.4	27.2	25.2	176.59	601.9	848.5	266.0	219.5	46.43	5.728					
7,400.0	7,193.4	7,351.4	7,193.4	27.4	25.3	176.59	601.9	848.5	266.0	219.2	46.73	5.692					
7,500.0	7,293.4	7,451.4	7,293.4	27.5	25.5	176.59	601.9	848.5	266.0	218.9	47.03	5.655					
7,598.6	7,392.0	7,550.1	7,392.0	27.6	25.6	176.59	601.9	848.5	266.0	218.6	47.33	5.620					

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 42C-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-60.0	-0.2	60.0					
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-60.0	-0.2	60.0	59.8	0.19	321.534		
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-60.0	-0.2	60.0	59.3	0.64	94.301		
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-60.0	-0.2	60.0	58.9	1.09	55.253		
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-60.0	-0.2	60.0	58.4	1.54	39.074		
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-60.0	-0.2	60.0	58.0	1.98	30.223		
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-60.0	-0.2	60.0	57.5	2.43	24.642		
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-60.0	-0.2	60.0	57.1	2.88	20.801		
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-60.0	-0.2	60.0	56.7	3.33	17.995		
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-60.0	-0.2	60.0	56.2	3.78	15.857		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-60.0	-0.2	60.0	55.8	4.23	14.173		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-60.0	-0.2	60.0	55.4	4.57	13.127 CC		
1,100.0	1,100.0	1,100.1	1,100.1	2.3	2.3	100.23	-60.0	0.0	60.0	55.3	4.68	12.832		
1,175.0	1,174.9	1,175.3	1,175.3	2.5	2.5	100.18	-59.7	2.8	60.2	55.3	4.98	12.092 ES		
1,200.0	1,199.9	1,200.8	1,200.6	2.5	2.5	108.29	-59.5	4.5	60.4	55.4	5.09	11.874		
1,300.0	1,299.4	1,302.4	1,301.7	2.8	2.8	122.63	-56.9	15.0	62.6	57.0	5.55	11.279		
1,400.0	1,398.1	1,403.8	1,401.7	3.0	3.0	125.76	-51.4	31.0	67.0	60.9	6.05	11.070 SF		
1,500.0	1,495.8	1,505.0	1,500.2	3.3	3.4	124.99	-43.3	52.4	73.9	67.2	6.64	11.121		
1,600.0	1,591.9	1,604.5	1,596.3	3.7	3.7	124.27	-33.7	76.7	84.1	76.8	7.35	11.449		
1,693.3	1,680.0	1,696.8	1,685.3	4.1	4.1	125.85	-24.8	99.2	97.4	89.3	8.07	12.066		
1,700.0	1,686.3	1,703.5	1,691.7	4.2	4.2	125.97	-24.2	100.9	98.5	90.4	8.13	12.115		
1,800.0	1,779.8	1,802.1	1,786.9	4.7	4.6	127.59	-14.7	124.9	114.7	105.7	9.00	12.743		
1,900.0	1,873.2	1,900.7	1,882.1	5.3	5.1	128.80	-5.2	149.0	130.9	121.0	9.91	13.213		
2,000.0	1,966.7	1,999.4	1,977.3	5.9	5.5	129.75	4.3	173.1	147.3	136.4	10.85	13.572		
2,100.0	2,060.2	2,098.0	2,072.4	6.5	6.0	130.51	13.8	197.2	163.6	151.8	11.81	13.852		
2,200.0	2,153.6	2,196.7	2,167.6	7.2	6.5	131.13	23.3	221.3	180.0	167.2	12.79	14.073		
2,300.0	2,247.1	2,295.3	2,262.8	7.8	7.0	131.64	32.8	245.4	196.4	182.6	13.78	14.252		
2,400.0	2,340.6	2,393.9	2,358.0	8.5	7.5	132.08	42.3	269.5	212.7	198.0	14.78	14.398		
2,500.0	2,434.0	2,492.6	2,453.1	9.2	8.1	132.46	51.9	293.6	229.2	213.4	15.78	14.519		
2,600.0	2,527.5	2,591.2	2,548.3	9.9	8.6	132.78	61.4	317.7	245.6	228.8	16.80	14.621		
2,700.0	2,620.9	2,689.8	2,643.5	10.5	9.1	133.06	70.9	341.8	262.0	244.2	17.81	14.707		
2,800.0	2,714.4	2,788.5	2,738.6	11.2	9.6	133.31	80.4	365.8	278.4	259.6	18.84	14.781		
2,900.0	2,807.9	2,887.1	2,833.8	11.9	10.1	133.54	89.9	389.9	294.8	275.0	19.86	14.845		
3,000.0	2,901.3	2,985.7	2,929.0	12.6	10.7	133.74	99.4	414.0	311.3	290.4	20.89	14.901		
3,100.0	2,994.8	3,084.4	3,024.2	13.3	11.2	133.91	108.9	438.1	327.7	305.8	21.92	14.949		
3,200.0	3,088.3	3,183.0	3,119.3	14.0	11.7	134.08	118.4	462.2	344.2	321.2	22.96	14.992		
3,300.0	3,181.7	3,281.6	3,214.5	14.7	12.3	134.22	127.9	486.3	360.6	336.6	23.99	15.030		
3,400.0	3,275.2	3,380.3	3,309.7	15.4	12.8	134.36	137.4	510.4	377.1	352.0	25.03	15.064		
3,500.0	3,368.7	3,478.9	3,404.9	16.1	13.3	134.48	146.9	534.5	393.5	367.4	26.07	15.095		
3,600.0	3,462.1	3,577.5	3,500.0	16.8	13.9	134.59	156.4	558.6	409.9	382.8	27.11	15.122		
3,700.0	3,555.6	3,676.2	3,595.2	17.5	14.4	134.70	165.9	582.6	426.4	398.2	28.15	15.147		
3,800.0	3,649.0	3,774.8	3,690.4	18.2	14.9	134.79	175.4	606.7	442.9	413.7	29.19	15.170		
3,900.0	3,742.5	3,873.4	3,785.6	18.9	15.5	134.88	185.0	630.8	459.3	429.1	30.24	15.190		
4,000.0	3,836.0	3,972.1	3,880.7	19.6	16.0	134.97	194.5	654.9	475.8	444.5	31.28	15.209		
4,100.0	3,929.4	4,070.7	3,975.9	20.3	16.5	135.05	204.0	679.0	492.2	459.9	32.33	15.227		
4,200.0	4,022.9	4,169.3	4,071.1	21.0	17.1	135.12	213.5	703.1	508.7	475.3	33.37	15.243		
4,300.0	4,116.4	4,268.0	4,166.3	21.7	17.6	135.19	223.0	727.2	525.1	490.7	34.42	15.257		
4,400.0	4,209.8	4,366.6	4,261.4	22.4	18.2	135.25	232.5	751.3	541.6	506.1	35.46	15.271		
4,419.3	4,227.9	4,385.6	4,279.8	22.6	18.3	135.26	234.3	755.9	544.8	509.1	35.67	15.274		
4,500.0	4,303.9	4,465.4	4,356.8	23.1	18.7	135.44	242.0	775.4	556.8	520.3	36.51	15.252		
4,600.0	4,399.5	4,561.1	4,449.2	23.5	19.2	135.31	251.1	798.5	568.6	531.1	37.47	15.173		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 42C-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	4,651.1	4,536.9	23.9	19.6	135.15	258.5	817.1	578.0	539.8	38.24	15.116		
4,800.0	4,594.8	4,741.2	4,625.6	24.3	19.8	135.02	264.3	831.9	585.4	546.6	38.85	15.068		
4,900.0	4,693.8	4,831.5	4,715.1	24.5	20.1	134.92	268.6	842.8	590.8	551.4	39.33	15.021		
5,000.0	4,793.4	4,922.0	4,805.3	24.7	20.2	134.84	271.4	849.8	594.0	554.3	39.67	14.974		
5,100.0	4,893.4	5,012.5	4,895.7	24.9	20.4	134.78	272.5	852.7	595.2	555.3	39.88	14.924		
5,113.6	4,907.0	5,024.8	4,908.0	24.9	20.4	178.06	272.6	852.8	595.2	555.3	39.90	14.917		
5,146.6	4,940.0	5,056.8	4,940.0	24.9	20.4	178.06	272.6	852.9	595.2	555.2	39.97	14.891		
5,200.0	4,993.4	5,110.1	4,993.4	24.9	20.5	178.06	272.6	852.9	595.2	555.1	40.08	14.849		
5,300.0	5,093.4	5,210.1	5,093.4	25.0	20.6	178.06	272.6	852.9	595.2	554.8	40.32	14.761		
5,400.0	5,193.4	5,310.1	5,193.4	25.1	20.7	178.06	272.6	852.9	595.2	554.6	40.56	14.673		
5,500.0	5,293.4	5,410.1	5,293.4	25.2	20.8	178.06	272.6	852.9	595.2	554.3	40.81	14.585		
5,600.0	5,393.4	5,510.1	5,393.4	25.3	21.0	178.06	272.6	852.9	595.2	554.1	41.06	14.496		
5,700.0	5,493.4	5,610.1	5,493.4	25.4	21.1	178.06	272.6	852.9	595.2	553.8	41.31	14.408		
5,800.0	5,593.4	5,710.1	5,593.4	25.5	21.2	178.06	272.6	852.9	595.2	553.6	41.56	14.319		
5,900.0	5,693.4	5,810.1	5,693.4	25.6	21.3	178.06	272.6	852.9	595.2	553.3	41.82	14.230		
6,000.0	5,793.4	5,910.1	5,793.4	25.7	21.5	178.06	272.6	852.9	595.2	553.1	42.08	14.142		
6,100.0	5,893.4	6,010.1	5,893.4	25.8	21.6	178.06	272.6	852.9	595.2	552.8	42.35	14.053		
6,200.0	5,993.4	6,110.1	5,993.4	26.0	21.7	178.06	272.6	852.9	595.2	552.5	42.62	13.965		
6,300.0	6,093.4	6,210.1	6,093.4	26.1	21.9	178.06	272.6	852.9	595.2	552.3	42.89	13.876		
6,400.0	6,193.4	6,310.1	6,193.4	26.2	22.0	178.06	272.6	852.9	595.2	552.0	43.16	13.788		
6,500.0	6,293.4	6,410.1	6,293.4	26.3	22.1	178.06	272.6	852.9	595.2	551.7	43.44	13.700		
6,600.0	6,393.4	6,510.1	6,393.4	26.4	22.3	178.06	272.6	852.9	595.2	551.4	43.72	13.612		
6,700.0	6,493.4	6,610.1	6,493.4	26.5	22.4	178.06	272.6	852.9	595.2	551.1	44.00	13.525		
6,800.0	6,593.4	6,710.1	6,593.4	26.6	22.5	178.06	272.6	852.9	595.2	550.9	44.29	13.438		
6,900.0	6,693.4	6,810.1	6,693.4	26.7	22.7	178.06	272.6	852.9	595.2	550.6	44.58	13.351		
7,000.0	6,793.4	6,910.1	6,793.4	26.9	22.8	178.06	272.6	852.9	595.2	550.3	44.87	13.264		
7,100.0	6,893.4	7,010.1	6,893.4	27.0	23.0	178.06	272.6	852.9	595.2	550.0	45.16	13.178		
7,200.0	6,993.4	7,110.1	6,993.4	27.1	23.1	178.06	272.6	852.9	595.2	549.7	45.46	13.092		
7,300.0	7,093.4	7,210.1	7,093.4	27.2	23.3	178.06	272.6	852.9	595.2	549.4	45.76	13.006		
7,400.0	7,193.4	7,310.1	7,193.4	27.4	23.4	178.06	272.6	852.9	595.2	549.1	46.06	12.921		
7,500.0	7,293.4	7,410.1	7,293.4	27.5	23.6	178.06	272.6	852.9	595.2	548.8	46.36	12.837		
7,598.6	7,392.0	7,508.8	7,392.0	27.6	23.7	178.06	272.6	852.9	595.2	548.5	46.66	12.754		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 42D-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-90.0	-0.4	90.0	89.8	0.19	482.300		
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-90.0	-0.4	90.0	89.3	0.64	141.452		
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-90.0	-0.4	90.0	88.9	1.09	82.880		
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-90.0	-0.4	90.0	88.4	1.54	58.611		
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-90.0	-0.4	90.0	88.0	1.98	45.335		
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-90.0	-0.4	90.0	87.5	2.43	36.963		
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-90.0	-0.4	90.0	87.1	2.88	31.201		
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-90.0	-0.4	90.0	86.6	3.33	26.993		
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-90.0	-0.4	90.0	86.2	3.78	23.785		
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-90.0	-0.4	90.0	85.7	4.23	21.259		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-90.0	-0.4	90.0	85.4	4.57	19.691 CC		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-90.0	-0.4	90.0	85.3	4.68	19.237 ES		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	100.35	-90.0	-0.4	90.0	85.5	4.99	18.120		
1,175.0	1,174.9	1,175.2	1,175.1	2.5	2.5	101.18	-89.9	1.1	90.5	85.8	5.10	17.814		
1,200.0	1,199.9	1,200.2	1,200.2	2.5	2.6	109.67	-89.9	2.3	90.9	85.8	5.54	17.215 SF		
1,300.0	1,299.4	1,300.5	1,300.1	2.8	2.8	125.85	-89.6	10.1	95.3	89.8	6.00	17.383		
1,400.0	1,398.1	1,400.4	1,399.1	3.0	3.0	131.23	-89.1	23.2	104.4	111.5	6.53	18.073		
1,500.0	1,495.8	1,499.7	1,496.8	3.3	3.3	132.88	-88.4	41.3	118.1	129.3	7.16	19.067		
1,600.0	1,591.9	1,598.1	1,592.5	3.7	3.6	132.90	-87.6	64.1	136.4	149.9	7.81	20.189		
1,693.3	1,680.0	1,688.9	1,680.5	4.1	4.0	133.31	-86.7	88.2	159.4	175.7	8.68	21.242		
1,700.0	1,686.3	1,695.4	1,686.8	4.2	4.0	133.34	-86.7	88.2	159.4	175.7	8.68	21.242		
1,800.0	1,779.8	1,792.2	1,780.6	4.7	4.4	133.68	-85.8	112.2	184.4	199.8	9.54	21.938		
1,900.0	1,873.2	1,889.1	1,874.4	5.3	4.8	133.94	-84.9	136.2	209.4	223.9	10.44	22.442		
2,000.0	1,966.7	1,985.9	1,968.2	5.9	5.2	134.15	-84.0	160.2	234.3	248.0	11.37	22.813		
2,100.0	2,060.2	2,082.7	2,062.0	6.5	5.7	134.31	-83.1	184.2	259.3	272.0	12.31	23.089		
2,200.0	2,153.6	2,179.5	2,155.8	7.2	6.1	134.45	-82.2	208.2	284.3	296.0	13.28	23.297		
2,300.0	2,247.1	2,276.4	2,249.6	7.8	6.6	134.56	-81.3	232.2	309.3	320.0	14.25	23.456		
2,400.0	2,340.6	2,373.2	2,343.4	8.5	7.1	134.66	-80.4	256.2	334.3	344.1	15.24	23.578		
2,500.0	2,434.0	2,470.0	2,437.2	9.2	7.6	134.74	-79.5	280.2	359.3	368.0	16.23	23.673		
2,600.0	2,527.5	2,566.8	2,531.0	9.9	8.0	134.82	-78.6	304.2	384.3	392.0	17.23	23.747		
2,700.0	2,620.9	2,663.7	2,624.8	10.5	8.5	134.88	-77.7	328.1	409.3	416.0	18.24	23.806		
2,800.0	2,714.4	2,760.5	2,718.6	11.2	9.0	134.94	-76.8	352.1	434.3	440.0	19.25	23.852		
2,900.0	2,807.9	2,857.3	2,812.4	11.9	9.5	134.99	-76.0	376.1	459.3	464.0	20.27	23.889		
3,000.0	2,901.3	2,954.1	2,906.2	12.6	10.0	135.03	-75.1	400.1	484.2	488.0	21.29	23.918		
3,100.0	2,994.8	3,051.0	3,000.0	13.3	10.5	135.07	-74.2	424.1	509.2	511.9	22.31	23.941		
3,200.0	3,088.3	3,147.8	3,093.8	14.0	11.0	135.11	-73.3	448.1	534.2	535.9	23.34	23.959		
3,300.0	3,181.7	3,244.6	3,187.6	14.7	11.5	135.14	-72.4	472.1	559.2	559.9	24.37	23.974		
3,400.0	3,275.2	3,341.4	3,281.4	15.4	12.0	135.18	-71.5	496.1	584.2	583.8	25.40	23.985		
3,500.0	3,368.7	3,438.3	3,375.2	16.1	12.5	135.20	-70.6	520.1	609.2	607.8	26.43	23.994		
3,600.0	3,462.1	3,535.1	3,469.0	16.8	13.0	135.23	-69.7	544.1	634.2	631.7	27.47	24.000		
3,700.0	3,555.6	3,631.9	3,562.8	17.5	13.5	135.25	-68.8	568.1	659.2	655.7	28.50	24.005		
3,800.0	3,649.0	3,728.8	3,656.6	18.2	14.0	135.28	-67.9	592.1	684.2	679.7	29.54	24.009		
3,900.0	3,742.5	3,825.6	3,750.4	18.9	14.5	135.30	-67.0	616.1	709.2	703.6	30.58	24.011		
4,000.0	3,836.0	3,922.4	3,844.2	19.6	15.0	135.32	-66.1	640.1	734.2	727.6	31.62	24.013		
4,100.0	3,929.4	4,019.2	3,938.0	20.3	15.5	135.33	-65.2	664.1	759.2	751.5	32.66	24.013		
4,200.0	4,022.9	4,116.1	4,031.8	21.0	16.0	135.35	-64.3	688.1	784.2	775.5	33.70	24.013		
4,300.0	4,116.4	4,212.9	4,125.6	21.7	16.5	135.37	-63.4	712.1	809.2	799.4	34.74	24.013		
4,400.0	4,209.8	4,309.7	4,219.4	22.4	17.1	135.38	-62.5	736.1	834.2	804.0	35.79	23.974		
4,419.3	4,227.9	4,328.4	4,237.5	22.6	17.2	135.38	-62.4	740.7	839.0	822.2	36.77	23.884		
4,500.0	4,303.9	4,406.8	4,313.5	23.1	17.6	135.72	-61.6	760.1	858.0	841.4				
4,600.0	4,399.5	4,504.6	4,408.2	23.5	18.1	135.85	-60.7	784.4	878.2					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 42D-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	4,602.1	4,502.9	23.9	18.5	135.73	-59.9	807.8	894.8	857.1	37.68	23.749		
4,800.0	4,594.8	4,700.0	4,598.8	24.3	18.9	135.60	-59.2	827.0	907.9	869.6	38.37	23.660		
4,900.0	4,693.8	4,798.2	4,695.9	24.5	19.2	135.50	-58.6	841.2	917.5	878.6	38.92	23.575		
5,000.0	4,793.4	4,897.1	4,794.4	24.7	19.4	135.41	-58.3	850.6	923.4	884.1	39.31	23.490		
5,100.0	4,893.4	4,996.4	4,893.6	24.9	19.5	135.34	-58.1	854.8	925.7	886.2	39.56	23.403		
5,113.6	4,907.0	5,009.9	4,907.1	24.9	19.5	178.62	-58.1	854.9	925.8	886.2	39.58	23.390		
5,150.0	4,943.3	5,046.1	4,943.3	24.9	19.6	178.62	-58.1	855.0	925.8	886.1	39.66	23.344		
5,200.0	4,993.4	5,096.2	4,993.4	24.9	19.6	178.62	-58.1	855.0	925.8	886.0	39.76	23.281		
5,300.0	5,093.4	5,196.2	5,093.4	25.0	19.7	178.62	-58.1	855.0	925.8	885.8	40.00	23.143		
5,400.0	5,193.4	5,296.2	5,193.4	25.1	19.9	178.62	-58.1	855.0	925.8	885.5	40.24	23.004		
5,500.0	5,293.4	5,396.2	5,293.4	25.2	20.0	178.62	-58.1	855.0	925.8	885.3	40.49	22.864		
5,600.0	5,393.4	5,496.2	5,393.4	25.3	20.1	178.62	-58.1	855.0	925.8	885.0	40.74	22.724		
5,700.0	5,493.4	5,596.2	5,493.4	25.4	20.2	178.62	-58.1	855.0	925.8	884.8	40.99	22.584		
5,800.0	5,593.4	5,696.2	5,593.4	25.5	20.4	178.62	-58.1	855.0	925.8	884.5	41.25	22.444		
5,900.0	5,693.4	5,796.2	5,693.4	25.6	20.5	178.62	-58.1	855.0	925.8	884.3	41.51	22.304		
6,000.0	5,793.4	5,896.2	5,793.4	25.7	20.6	178.62	-58.1	855.0	925.8	884.0	41.77	22.164		
6,100.0	5,893.4	5,996.2	5,893.4	25.8	20.8	178.62	-58.1	855.0	925.8	883.7	42.03	22.024		
6,200.0	5,993.4	6,096.2	5,993.4	26.0	20.9	178.62	-58.1	855.0	925.8	883.5	42.30	21.885		
6,300.0	6,093.4	6,196.2	6,093.4	26.1	21.0	178.62	-58.1	855.0	925.8	883.2	42.57	21.745		
6,400.0	6,193.4	6,296.2	6,193.4	26.2	21.2	178.62	-58.1	855.0	925.8	882.9	42.85	21.606		
6,500.0	6,293.4	6,396.2	6,293.4	26.3	21.3	178.62	-58.1	855.0	925.8	882.6	43.13	21.467		
6,600.0	6,393.4	6,496.2	6,393.4	26.4	21.5	178.62	-58.1	855.0	925.8	882.4	43.41	21.328		
6,700.0	6,493.4	6,596.2	6,493.4	26.5	21.6	178.62	-58.1	855.0	925.8	882.1	43.69	21.190		
6,800.0	6,593.4	6,696.2	6,593.4	26.6	21.7	178.62	-58.1	855.0	925.8	881.8	43.98	21.052		
6,900.0	6,693.4	6,796.2	6,693.4	26.7	21.9	178.62	-58.1	855.0	925.8	881.5	44.26	20.914		
7,000.0	6,793.4	6,896.2	6,793.4	26.9	22.0	178.62	-58.1	855.0	925.8	881.2	44.56	20.778		
7,100.0	6,893.4	6,996.2	6,893.4	27.0	22.2	178.62	-58.1	855.0	925.8	880.9	44.85	20.641		
7,200.0	6,993.4	7,096.2	6,993.4	27.1	22.3	178.62	-58.1	855.0	925.8	880.6	45.15	20.506		
7,300.0	7,093.4	7,196.2	7,093.4	27.2	22.5	178.62	-58.1	855.0	925.8	880.3	45.45	20.371		
7,400.0	7,193.4	7,296.2	7,193.4	27.4	22.6	178.62	-58.1	855.0	925.8	880.0	45.75	20.237		
7,500.0	7,293.4	7,396.2	7,293.4	27.5	22.8	178.62	-58.1	855.0	925.8	879.7	46.05	20.103		
7,598.6	7,392.0	7,494.8	7,392.0	27.6	22.9	178.62	-58.1	855.0	925.8	879.4	46.35	19.972		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 42EWI-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-150.0	-0.6	150.0					
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-150.0	-0.6	150.0	149.8	0.19	803.834		
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-150.0	-0.6	150.0	149.3	0.64	235.754		
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-150.0	-0.6	150.0	148.9	1.09	138.133		
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-150.0	-0.6	150.0	148.4	1.54	97.684		
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-150.0	-0.6	150.0	148.0	1.98	75.559		
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-150.0	-0.6	150.0	147.5	2.43	61.605		
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-150.0	-0.6	150.0	147.1	2.88	52.002		
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-150.0	-0.6	150.0	146.6	3.33	44.989		
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-150.0	-0.6	150.0	146.2	3.78	39.642		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-150.0	-0.6	150.0	145.7	4.23	35.432		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-150.0	-0.6	150.0	145.4	4.57	32.818 CC		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	100.30	-150.0	-0.6	150.0	145.3	4.68	32.057 ES		
1,175.0	1,174.9	1,174.2	1,174.2	2.5	2.5	101.32	-150.0	-0.6	150.6	145.6	4.99	30.158		
1,200.0	1,199.9	1,198.5	1,198.5	2.5	2.5	110.04	-150.2	-0.4	151.2	146.1	5.10	29.677		
1,300.0	1,299.4	1,295.1	1,295.1	2.8	2.7	128.13	-152.1	1.2	158.3	152.8	5.50	28.793 SF		
1,400.0	1,398.1	1,392.1	1,392.0	3.0	2.9	136.68	-155.7	4.2	172.4	166.5	5.91	29.155		
1,500.0	1,495.8	1,489.6	1,489.3	3.3	3.1	142.59	-159.6	7.5	192.4	186.1	6.33	30.379		
1,600.0	1,591.9	1,585.5	1,585.1	3.7	3.3	147.29	-163.4	10.7	218.3	211.5	6.76	32.308		
1,693.3	1,680.0	1,673.3	1,672.8	4.1	3.5	150.93	-166.9	13.6	247.7	240.6	7.15	34.661		
1,700.0	1,686.3	1,679.6	1,679.0	4.2	3.5	151.13	-167.2	13.9	250.0	242.9	7.18	34.826		
1,800.0	1,779.8	1,772.7	1,772.0	4.7	3.7	153.70	-170.9	17.0	284.7	277.0	7.67	37.111		
1,900.0	1,873.2	1,865.8	1,865.0	5.3	3.9	155.72	-174.6	20.1	319.7	311.6	8.17	39.125		
2,000.0	1,966.7	1,959.7	1,958.8	5.9	4.1	157.36	-178.4	23.3	355.1	346.4	8.68	40.899		
2,100.0	2,060.2	2,062.3	2,061.2	6.5	4.3	158.70	-181.5	28.0	389.3	380.1	9.22	42.225		
2,200.0	2,153.6	2,166.8	2,165.5	7.2	4.6	159.64	-182.7	34.9	421.3	411.5	9.78	43.100		
2,300.0	2,247.1	2,272.8	2,271.1	7.8	4.8	160.30	-182.2	44.2	451.0	440.7	10.35	43.584		
2,400.0	2,340.6	2,368.6	2,366.4	8.5	5.1	160.74	-180.8	53.5	479.7	468.8	10.92	43.927		
2,500.0	2,434.0	2,464.3	2,461.6	9.2	5.3	161.14	-179.5	62.9	508.4	496.9	11.50	44.209		
2,600.0	2,527.5	2,560.0	2,556.9	9.9	5.5	161.49	-178.1	72.2	537.0	525.0	12.08	44.453		
2,700.0	2,620.9	2,655.8	2,652.2	10.5	5.8	161.81	-176.8	81.5	565.7	553.1	12.67	44.664		
2,800.0	2,714.4	2,751.5	2,747.5	11.2	6.0	162.10	-175.4	90.8	594.5	581.2	13.26	44.847		
2,900.0	2,807.9	2,847.3	2,842.8	11.9	6.3	162.36	-174.1	100.1	623.2	609.3	13.85	45.008		
3,000.0	2,901.3	2,943.0	2,938.0	12.6	6.5	162.60	-172.8	109.5	651.9	637.5	14.44	45.150		
3,100.0	2,994.8	3,038.8	3,033.3	13.3	6.8	162.81	-171.4	118.8	680.7	665.7	15.03	45.275		
3,200.0	3,088.3	3,134.5	3,128.6	14.0	7.0	163.01	-170.1	128.1	709.4	693.8	15.63	45.386		
3,300.0	3,181.7	3,230.3	3,223.9	14.7	7.3	163.20	-168.7	137.4	738.2	722.0	16.23	45.486		
3,400.0	3,275.2	3,326.0	3,319.2	15.4	7.6	163.37	-167.4	146.7	767.0	750.2	16.83	45.575		
3,500.0	3,368.7	3,421.8	3,414.5	16.1	7.8	163.53	-166.1	156.1	795.8	778.3	17.43	45.655		
3,600.0	3,462.1	3,517.5	3,509.7	16.8	8.1	163.67	-164.7	165.4	824.6	806.5	18.03	45.727		
3,700.0	3,555.6	3,613.3	3,605.0	17.5	8.3	163.81	-163.4	174.7	853.3	834.7	18.63	45.793		
3,800.0	3,649.0	3,709.0	3,700.3	18.2	8.6	163.94	-162.0	184.0	882.1	862.9	19.24	45.852		
3,900.0	3,742.5	3,804.8	3,795.6	18.9	8.9	164.06	-160.7	193.4	910.9	891.1	19.84	45.906		
4,000.0	3,836.0	3,900.5	3,890.9	19.6	9.1	164.17	-159.4	202.7	939.7	919.3	20.45	45.956		
4,100.0	3,929.4	3,996.3	3,986.2	20.3	9.4	164.28	-158.0	212.0	968.5	947.5	21.05	46.001		
4,200.0	4,022.9	4,092.0	4,081.4	21.0	9.7	164.38	-156.7	221.3	997.3	975.7	21.66	46.043		
4,300.0	4,116.4	4,187.7	4,176.7	21.7	9.9	164.47	-155.3	230.6	1,026.1	1,003.9	22.27	46.081		
4,400.0	4,209.8	4,283.5	4,272.0	22.4	10.2	164.56	-154.0	240.0	1,055.0	1,032.1	22.88	46.116		
4,419.3	4,227.9	4,302.0	4,290.4	22.6	10.2	164.58	-153.7	241.8	1,060.5	1,037.5	22.99	46.122		
4,500.0	4,303.9	4,379.7	4,367.7	23.1	10.5	164.80	-152.7	249.3	1,082.2	1,058.6	23.56	45.941		
4,600.0	4,399.5	4,477.1	4,464.7	23.5	10.7	164.97	-151.3	258.8	1,104.6	1,080.4	24.18	45.681		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 42EWI-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	4,575.6	4,562.7	23.9	11.0	165.02	-149.9	268.4	1,122.1	1,097.3	24.75	45.330		
4,800.0	4,594.8	4,674.7	4,661.4	24.3	11.3	164.96	-148.5	278.1	1,134.6	1,109.3	25.27	44.896		
4,900.0	4,693.8	4,774.4	4,760.5	24.5	11.6	164.80	-147.1	287.8	1,142.0	1,116.3	25.73	44.385		
5,000.0	4,793.4	4,849.0	4,834.9	24.7	11.7	164.67	-146.3	293.7	1,145.5	1,119.5	26.00	44.067		
5,100.0	4,893.4	4,922.9	4,908.7	24.9	11.9	164.59	-145.8	296.8	1,146.3	1,120.1	26.16	43.823		
5,113.6	4,907.0	4,932.9	4,918.7	24.9	11.9	-152.13	-145.8	297.0	1,146.2	1,120.0	26.17	43.794		
5,173.7	4,967.1	4,981.3	4,967.1	24.9	12.0	-152.14	-145.8	297.3	1,145.9	1,119.6	26.35	43.497		
5,200.0	4,993.4	5,007.6	4,993.4	24.9	12.0	-152.14	-145.8	297.3	1,145.9	1,119.5	26.43	43.355		
5,300.0	5,093.4	5,107.6	5,093.4	25.0	12.2	-152.14	-145.8	297.3	1,145.9	1,119.2	26.78	42.788		
5,400.0	5,193.4	5,207.6	5,193.4	25.1	12.4	-152.14	-145.8	297.3	1,145.9	1,118.8	27.13	42.232		
5,500.0	5,293.4	5,307.6	5,293.4	25.2	12.6	-152.14	-145.8	297.3	1,145.9	1,118.4	27.49	41.685		
5,600.0	5,393.4	5,407.6	5,393.4	25.3	12.8	-152.14	-145.8	297.3	1,145.9	1,118.1	27.85	41.148		
5,700.0	5,493.4	5,507.6	5,493.4	25.4	13.0	-152.14	-145.8	297.3	1,145.9	1,117.7	28.21	40.622		
5,800.0	5,593.4	5,607.6	5,593.4	25.5	13.2	-152.14	-145.8	297.3	1,145.9	1,117.4	28.57	40.105		
5,900.0	5,693.4	5,707.6	5,693.4	25.6	13.4	-152.14	-145.8	297.3	1,145.9	1,117.0	28.94	39.598		
6,000.0	5,793.4	5,807.6	5,793.4	25.7	13.6	-152.14	-145.8	297.3	1,145.9	1,116.6	29.31	39.101		
6,100.0	5,893.4	5,907.6	5,893.4	25.8	13.8	-152.14	-145.8	297.3	1,145.9	1,116.3	29.68	38.614		
6,200.0	5,993.4	6,007.6	5,993.4	26.0	14.0	-152.14	-145.8	297.3	1,145.9	1,115.9	30.05	38.135		
6,300.0	6,093.4	6,107.6	6,093.4	26.1	14.2	-152.14	-145.8	297.3	1,145.9	1,115.5	30.42	37.666		
6,400.0	6,193.4	6,207.6	6,193.4	26.2	14.4	-152.14	-145.8	297.3	1,145.9	1,115.1	30.80	37.206		
6,500.0	6,293.4	6,307.6	6,293.4	26.3	14.6	-152.14	-145.8	297.3	1,145.9	1,114.8	31.18	36.755		
6,600.0	6,393.4	6,407.6	6,393.4	26.4	14.8	-152.14	-145.8	297.3	1,145.9	1,114.4	31.56	36.313		
6,700.0	6,493.4	6,507.6	6,493.4	26.5	15.0	-152.14	-145.8	297.3	1,145.9	1,114.0	31.94	35.879		
6,800.0	6,593.4	6,607.6	6,593.4	26.6	15.2	-152.14	-145.8	297.3	1,145.9	1,113.6	32.32	35.453		
6,900.0	6,693.4	6,707.6	6,693.4	26.7	15.4	-152.14	-145.8	297.3	1,145.9	1,113.2	32.71	35.036		
7,000.0	6,793.4	6,807.6	6,793.4	26.9	15.6	-152.14	-145.8	297.3	1,145.9	1,112.8	33.09	34.627		
7,100.0	6,893.4	6,907.6	6,893.4	27.0	15.8	-152.14	-145.8	297.3	1,145.9	1,112.5	33.48	34.225		
7,200.0	6,993.4	7,007.6	6,993.4	27.1	16.0	-152.14	-145.8	297.3	1,145.9	1,112.1	33.87	33.832		
7,300.0	7,093.4	7,107.6	7,093.4	27.2	16.2	-152.14	-145.8	297.3	1,145.9	1,111.7	34.26	33.446		
7,400.0	7,193.4	7,207.6	7,193.4	27.4	16.4	-152.14	-145.8	297.3	1,145.9	1,111.3	34.65	33.067		
7,500.0	7,293.4	7,307.6	7,293.4	27.5	16.6	-152.14	-145.8	297.3	1,145.9	1,110.9	35.05	32.696		
7,598.6	7,392.0	7,406.2	7,392.0	27.6	16.8	-152.14	-145.8	297.3	1,145.9	1,110.5	35.44	32.336		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 43A-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-120.0	-0.5	120.0					
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-120.0	-0.5	120.0	119.8	0.19	643.067		
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-120.0	-0.5	120.0	119.3	0.64	188.603		
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-120.0	-0.5	120.0	118.9	1.09	110.506		
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-120.0	-0.5	120.0	118.4	1.54	78.147		
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-120.0	-0.5	120.0	118.0	1.98	60.447		
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-120.0	-0.5	120.0	117.5	2.43	49.284		
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-120.0	-0.5	120.0	117.1	2.88	41.601		
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-120.0	-0.5	120.0	116.6	3.33	35.991		
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-120.0	-0.5	120.0	116.2	3.78	31.714		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-120.0	-0.5	120.0	115.7	4.23	28.346		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-120.0	-0.5	120.0	115.4	4.57	26.254 CC		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	100.32	-120.0	-0.5	120.0	115.3	4.68	25.647 ES		
1,175.0	1,174.9	1,175.0	1,175.0	2.5	2.5	100.94	-120.0	1.0	120.5	115.5	4.99	24.140		
1,200.0	1,199.9	1,200.0	1,200.0	2.5	2.6	109.35	-120.0	2.1	120.9	115.8	5.10	23.718		
1,300.0	1,299.4	1,297.7	1,297.4	2.8	2.8	125.49	-120.9	9.6	126.6	121.1	5.53	22.916 SF		
1,400.0	1,398.1	1,394.6	1,393.5	3.0	3.0	131.23	-123.6	21.5	139.0	133.0	5.98	23.241		
1,500.0	1,495.8	1,490.2	1,487.6	3.3	3.2	133.51	-128.1	37.7	158.0	151.5	6.49	24.346		
1,600.0	1,591.9	1,583.9	1,578.9	3.7	3.5	134.22	-134.1	57.8	183.5	176.4	7.07	25.935		
1,693.3	1,680.0	1,671.5	1,663.5	4.1	3.9	134.40	-141.0	79.5	212.6	204.9	7.70	27.606		
1,700.0	1,686.3	1,677.8	1,669.6	4.2	3.9	134.41	-141.5	81.1	214.8	207.1	7.75	27.718		
1,800.0	1,779.8	1,772.1	1,760.5	4.7	4.3	134.50	-148.9	104.6	248.3	239.7	8.54	29.083		
1,900.0	1,873.2	1,866.3	1,851.5	5.3	4.7	134.57	-156.4	128.1	281.7	272.3	9.37	30.058		
2,000.0	1,966.7	1,960.6	1,942.5	5.9	5.1	134.63	-163.8	151.7	315.1	304.9	10.25	30.756		
2,100.0	2,060.2	2,054.8	2,033.4	6.5	5.6	134.68	-171.2	175.2	348.5	337.4	11.15	31.266		
2,200.0	2,153.6	2,149.1	2,124.4	7.2	6.1	134.72	-178.7	198.7	381.9	369.9	12.07	31.633		
2,300.0	2,247.1	2,243.3	2,215.3	7.8	6.6	134.75	-186.1	222.3	415.4	402.4	13.02	31.912		
2,400.0	2,340.6	2,337.6	2,306.3	8.5	7.0	134.78	-193.5	245.8	448.8	434.8	13.97	32.118		
2,500.0	2,434.0	2,431.8	2,397.3	9.2	7.5	134.80	-201.0	269.3	482.2	467.3	14.94	32.273		
2,600.0	2,527.5	2,526.1	2,488.2	9.9	8.0	134.82	-208.4	292.9	515.6	499.7	15.92	32.389		
2,700.0	2,620.9	2,620.3	2,579.2	10.5	8.5	134.84	-215.8	316.4	549.1	532.2	16.91	32.477		
2,800.0	2,714.4	2,714.6	2,670.1	11.2	9.0	134.85	-223.3	340.0	582.5	564.6	17.90	32.544		
2,900.0	2,807.9	2,808.8	2,761.1	11.9	9.5	134.87	-230.7	363.5	615.9	597.0	18.90	32.594		
3,000.0	2,901.3	2,903.1	2,852.1	12.6	10.0	134.88	-238.1	387.0	649.3	629.4	19.90	32.632		
3,100.0	2,994.8	2,997.3	2,943.0	13.3	10.6	134.89	-245.6	410.6	682.8	661.8	20.91	32.659		
3,200.0	3,088.3	3,091.6	3,034.0	14.0	11.1	134.90	-253.0	434.1	716.2	694.3	21.92	32.679		
3,300.0	3,181.7	3,185.8	3,124.9	14.7	11.6	134.91	-260.4	457.6	749.6	726.7	22.93	32.693		
3,400.0	3,275.2	3,280.1	3,215.9	15.4	12.1	134.92	-267.9	481.2	783.0	759.1	23.94	32.702		
3,500.0	3,368.7	3,374.3	3,306.9	16.1	12.6	134.93	-275.3	504.7	816.4	791.5	24.96	32.708		
3,600.0	3,462.1	3,468.6	3,397.8	16.8	13.1	134.94	-282.8	528.2	849.9	823.9	25.98	32.710		
3,700.0	3,555.6	3,562.8	3,488.8	17.5	13.7	134.94	-290.2	551.8	883.3	856.3	27.00	32.710		
3,800.0	3,649.0	3,657.1	3,579.7	18.2	14.2	134.95	-297.6	575.3	916.7	888.7	28.03	32.708		
3,900.0	3,742.5	3,751.3	3,670.7	18.9	14.7	134.96	-305.1	598.8	950.1	921.1	29.05	32.705		
4,000.0	3,836.0	3,845.5	3,761.7	19.6	15.2	134.96	-312.5	622.4	983.6	953.5	30.08	32.700		
4,100.0	3,929.4	3,939.8	3,852.6	20.3	15.7	134.97	-319.9	645.9	1,017.0	985.9	31.11	32.695		
4,200.0	4,022.9	4,034.0	3,943.6	21.0	16.3	134.97	-327.4	669.4	1,050.4	1,018.3	32.13	32.689		
4,300.0	4,116.4	4,128.3	4,034.5	21.7	16.8	134.98	-334.8	693.0	1,083.8	1,050.7	33.16	32.682		
4,400.0	4,209.8	4,222.5	4,125.5	22.4	17.3	134.98	-342.2	716.5	1,117.3	1,083.1	34.19	32.675		
4,419.3	4,227.9	4,240.7	4,143.0	22.6	17.4	134.98	-343.7	721.1	1,123.7	1,089.3	34.39	32.673		
4,500.0	4,303.9	4,317.2	4,216.8	23.1	17.8	135.00	-349.7	740.2	1,149.5	1,114.3	35.26	32.598		
4,600.0	4,399.5	4,412.8	4,309.1	23.5	18.4	135.89	-357.2	764.0	1,178.3	1,142.1	36.25	32.503		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 43A-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	4,509.2	4,402.2	23.9	18.9	136.02	-364.8	788.1	1,203.6	1,166.4	37.20	32.354		
4,800.0	4,594.8	4,622.4	4,511.9	24.3	19.4	135.89	-373.3	814.7	1,224.8	1,186.7	38.10	32.149		
4,900.0	4,693.8	4,745.5	4,632.7	24.5	19.8	135.74	-380.2	836.9	1,240.5	1,201.7	38.79	31.978		
5,000.0	4,793.4	4,870.7	4,756.9	24.7	20.1	135.61	-384.9	851.7	1,250.6	1,211.3	39.31	31.815		
5,100.0	4,893.4	4,997.1	4,883.1	24.9	20.4	135.52	-387.2	858.7	1,254.8	1,215.2	39.64	31.657		
5,113.6	4,907.0	5,014.3	4,900.3	24.9	20.4	178.80	-387.3	859.1	1,255.0	1,215.3	39.67	31.637		
5,200.0	4,993.4	5,107.4	4,993.4	24.9	20.5	178.78	-387.4	859.3	1,255.0	1,215.2	39.86	31.483		
5,300.0	5,093.4	5,207.4	5,093.4	25.0	20.6	178.78	-387.4	859.3	1,255.0	1,214.9	40.10	31.299		
5,400.0	5,193.4	5,307.4	5,193.4	25.1	20.7	178.78	-387.4	859.3	1,255.0	1,214.7	40.34	31.114		
5,500.0	5,293.4	5,407.4	5,293.4	25.2	20.8	178.78	-387.4	859.3	1,255.0	1,214.4	40.58	30.929		
5,600.0	5,393.4	5,507.4	5,393.4	25.3	20.9	178.78	-387.4	859.3	1,255.0	1,214.2	40.82	30.743		
5,700.0	5,493.4	5,607.4	5,493.4	25.4	21.1	178.78	-387.4	859.3	1,255.0	1,214.0	41.07	30.557		
5,800.0	5,593.4	5,707.4	5,593.4	25.5	21.2	178.78	-387.4	859.3	1,255.0	1,213.7	41.32	30.371		
5,900.0	5,693.4	5,807.4	5,693.4	25.6	21.3	178.78	-387.4	859.3	1,255.0	1,213.4	41.58	30.184		
6,000.0	5,793.4	5,907.4	5,793.4	25.7	21.4	178.78	-387.4	859.3	1,255.0	1,213.2	41.84	29.998		
6,100.0	5,893.4	6,007.4	5,893.4	25.8	21.6	178.78	-387.4	859.3	1,255.0	1,212.9	42.10	29.811		
6,200.0	5,993.4	6,107.4	5,993.4	26.0	21.7	178.78	-387.4	859.3	1,255.0	1,212.7	42.36	29.625		
6,300.0	6,093.4	6,207.4	6,093.4	26.1	21.8	178.78	-387.4	859.3	1,255.0	1,212.4	42.63	29.439		
6,400.0	6,193.4	6,307.4	6,193.4	26.2	21.9	178.78	-387.4	859.3	1,255.0	1,212.1	42.90	29.253		
6,500.0	6,293.4	6,407.4	6,293.4	26.3	22.1	178.78	-387.4	859.3	1,255.0	1,211.8	43.18	29.067		
6,600.0	6,393.4	6,507.4	6,393.4	26.4	22.2	178.78	-387.4	859.3	1,255.0	1,211.6	43.45	28.882		
6,700.0	6,493.4	6,607.4	6,493.4	26.5	22.3	178.78	-387.4	859.3	1,255.0	1,211.3	43.73	28.697		
6,800.0	6,593.4	6,707.4	6,593.4	26.6	22.5	178.78	-387.4	859.3	1,255.0	1,211.0	44.02	28.513		
6,900.0	6,693.4	6,807.4	6,693.4	26.7	22.6	178.78	-387.4	859.3	1,255.0	1,210.7	44.30	28.329		
7,000.0	6,793.4	6,907.4	6,793.4	26.9	22.8	178.78	-387.4	859.3	1,255.0	1,210.4	44.59	28.146		
7,100.0	6,893.4	7,007.4	6,893.4	27.0	22.9	178.78	-387.4	859.3	1,255.0	1,210.1	44.88	27.964		
7,200.0	6,993.4	7,107.4	6,993.4	27.1	23.0	178.78	-387.4	859.3	1,255.0	1,209.9	45.17	27.782		
7,300.0	7,093.4	7,207.4	7,093.4	27.2	23.2	178.78	-387.4	859.3	1,255.0	1,209.6	45.47	27.601		
7,400.0	7,193.4	7,307.4	7,193.4	27.4	23.3	178.78	-387.4	859.3	1,255.0	1,209.3	45.77	27.421		
7,500.0	7,293.4	7,407.4	7,293.4	27.5	23.5	178.78	-387.4	859.3	1,255.0	1,209.0	46.07	27.242		
7,598.6	7,392.0	7,506.0	7,392.0	27.6	23.6	178.78	-387.4	859.3	1,255.0	1,208.7	46.37	27.066		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Valley Farms G - Valley Farms G 43B-14-06-92 - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program:		0-MWD											Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	-179.77	-140.0	-0.6	140.0								
100.0	100.0	100.0	100.0	0.1	0.1	-179.77	-140.0	-0.6	140.0	139.8	0.19	750.244					
200.0	200.0	200.0	200.0	0.3	0.3	-179.77	-140.0	-0.6	140.0	139.3	0.64	220.037					
300.0	300.0	300.0	300.0	0.5	0.5	-179.77	-140.0	-0.6	140.0	138.9	1.09	128.924					
400.0	400.0	400.0	400.0	0.8	0.8	-179.77	-140.0	-0.6	140.0	138.4	1.54	91.172					
500.0	500.0	500.0	500.0	1.0	1.0	-179.77	-140.0	-0.6	140.0	138.0	1.98	70.521					
600.0	600.0	600.0	600.0	1.2	1.2	-179.77	-140.0	-0.6	140.0	137.5	2.43	57.498					
700.0	700.0	700.0	700.0	1.4	1.4	-179.77	-140.0	-0.6	140.0	137.1	2.88	48.535					
800.0	800.0	800.0	800.0	1.7	1.7	-179.77	-140.0	-0.6	140.0	136.6	3.33	41.989					
900.0	900.0	900.0	900.0	1.9	1.9	-179.77	-140.0	-0.6	140.0	136.2	3.78	37.000					
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-179.77	-140.0	-0.6	140.0	135.7	4.23	33.070					
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-179.77	-140.0	-0.6	140.0	135.4	4.57	30.630 CC					
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	100.31	-140.0	-0.6	140.0	135.3	4.68	29.920 ES					
1,175.0	1,174.9	1,174.7	1,174.7	2.5	2.5	101.12	-140.0	0.2	140.6	135.6	4.99	28.149					
1,200.0	1,199.9	1,199.6	1,199.6	2.5	2.6	109.58	-140.1	1.1	141.1	136.0	5.10	27.659					
1,300.0	1,299.4	1,299.1	1,298.8	2.8	2.8	125.68	-140.6	8.7	146.3	140.8	5.53	26.457					
1,400.0	1,398.1	1,398.2	1,396.9	3.0	3.0	131.01	-141.5	22.1	156.8	150.8	6.00	26.152 SF					
1,500.0	1,495.8	1,490.5	1,487.6	3.3	3.2	132.92	-143.9	39.2	173.8	167.3	6.50	26.726					
1,600.0	1,591.9	1,577.8	1,572.8	3.7	3.5	133.93	-150.3	57.4	200.1	193.0	7.06	28.356					
1,693.3	1,680.0	1,655.7	1,648.1	4.1	3.8	134.52	-159.6	75.1	232.9	225.2	7.63	30.502					
1,700.0	1,686.3	1,661.2	1,653.3	4.2	3.8	134.54	-160.4	76.4	235.5	227.8	7.68	30.663					
1,800.0	1,779.8	1,743.4	1,731.8	4.7	4.1	134.63	-174.0	96.6	277.0	268.6	8.42	32.912					
1,900.0	1,873.2	1,833.9	1,817.9	5.3	4.6	134.60	-190.1	119.3	319.7	310.4	9.22	34.689					
2,000.0	1,966.7	1,924.3	1,903.9	5.9	5.0	134.57	-206.2	142.0	362.3	352.3	10.05	36.036					
2,100.0	2,060.2	2,014.7	1,990.0	6.5	5.5	134.55	-222.3	164.8	405.0	394.1	10.93	37.071					
2,200.0	2,153.6	2,105.2	2,076.0	7.2	6.0	134.54	-238.4	187.5	447.7	435.9	11.82	37.867					
2,300.0	2,247.1	2,195.6	2,162.0	7.8	6.5	134.52	-254.6	210.2	490.4	477.7	12.74	38.492					
2,400.0	2,340.6	2,286.0	2,248.1	8.5	7.1	134.51	-270.7	232.9	533.1	519.4	13.67	38.989					
2,500.0	2,434.0	2,376.5	2,334.1	9.2	7.6	134.50	-286.8	255.6	575.8	561.1	14.62	39.388					
2,600.0	2,527.5	2,466.9	2,420.1	9.9	8.2	134.49	-302.9	278.4	618.4	602.9	15.57	39.713					
2,700.0	2,620.9	2,557.3	2,506.2	10.5	8.7	134.49	-319.0	301.1	661.1	644.6	16.54	39.979					
2,800.0	2,714.4	2,647.8	2,592.2	11.2	9.3	134.48	-335.1	323.8	703.8	686.3	17.51	40.199					
2,900.0	2,807.9	2,738.2	2,678.2	11.9	9.8	134.47	-351.3	346.5	746.5	728.0	18.49	40.382					
3,000.0	2,901.3	2,828.6	2,764.3	12.6	10.4	134.47	-367.4	369.2	789.2	769.7	19.47	40.537					
3,100.0	2,994.8	2,919.1	2,850.3	13.3	11.0	134.46	-383.5	392.0	831.9	811.4	20.46	40.668					
3,200.0	3,088.3	3,009.5	2,936.3	14.0	11.5	134.46	-399.6	414.7	874.6	853.1	21.45	40.779					
3,300.0	3,181.7	3,099.9	3,022.4	14.7	12.1	134.46	-415.7	437.4	917.2	894.8	22.44	40.874					
3,400.0	3,275.2	3,190.4	3,108.4	15.4	12.7	134.45	-431.8	460.1	959.9	936.5	23.44	40.956					
3,500.0	3,368.7	3,280.8	3,194.5	16.1	13.3	134.45	-448.0	482.8	1,002.6	978.2	24.44	41.027					
3,600.0	3,462.1	3,371.2	3,280.5	16.8	13.8	134.45	-464.1	505.6	1,045.3	1,019.8	25.44	41.088					
3,700.0	3,555.6	3,461.7	3,366.5	17.5	14.4	134.44	-480.2	528.3	1,088.0	1,061.5	26.44	41.142					
3,800.0	3,649.0	3,552.1	3,452.6	18.2	15.0	134.44	-496.3	551.0	1,130.7	1,103.2	27.45	41.189					
3,900.0	3,742.5	3,642.5	3,538.6	18.9	15.6	134.44	-512.4	573.7	1,173.3	1,144.9	28.46	41.231					
4,000.0	3,836.0	3,733.0	3,624.6	19.6	16.2	134.44	-528.5	596.4	1,216.0	1,186.6	29.47	41.267					
4,100.0	3,929.4	3,823.4	3,710.7	20.3	16.7	134.43	-544.7	619.2	1,258.7	1,228.2	30.48	41.300					
4,200.0	4,022.9	3,913.8	3,796.7	21.0	17.3	134.43	-560.8	641.9	1,301.4	1,269.9	31.49	41.328					
4,300.0	4,116.4	4,004.3	3,882.7	21.7	17.9	134.43	-576.9	664.6	1,344.1	1,311.6	32.50	41.354					
4,400.0	4,209.8	4,094.7	3,968.8	22.4	18.5	134.43	-593.0	687.3	1,386.8	1,353.2	33.52	41.376					
4,419.3	4,227.9	4,112.1	3,985.4	22.6	18.6	134.43	-596.1	691.7	1,395.0	1,361.3	33.71	41.381					
4,500.0	4,303.9	4,185.6	4,055.3	23.1	19.1	135.15	-609.2	710.2	1,428.4	1,393.7	34.62	41.260					
4,600.0	4,399.5	4,277.9	4,143.0	23.5	19.7	135.82	-625.6	733.4	1,466.6	1,431.0	35.64	41.148					

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 43B-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,496.6	4,371.2	4,231.9	23.9	20.3	136.25	-642.3	756.8	1,501.4	1,464.8	36.61	41.011		
4,800.0	4,594.8	4,465.4	4,321.5	24.3	20.9	136.46	-659.1	780.5	1,532.7	1,495.2	37.51	40.858		
4,900.0	4,693.8	4,620.1	4,469.8	24.5	21.7	136.20	-684.4	816.1	1,559.3	1,520.8	38.50	40.501		
5,000.0	4,793.4	4,809.7	4,655.6	24.7	22.3	135.86	-705.9	846.5	1,577.0	1,537.7	39.33	40.099		
5,100.0	4,893.4	5,005.1	4,850.0	24.9	22.7	135.64	-716.9	862.0	1,585.1	1,545.3	39.86	39.769		
5,113.6	4,907.0	5,031.9	4,876.8	24.9	22.8	178.91	-717.5	862.9	1,585.5	1,545.6	39.90	39.734		
5,200.0	4,993.4	5,148.5	4,993.4	24.9	22.9	178.88	-718.1	863.7	1,585.8	1,545.6	40.13	39.514		
5,300.0	5,093.4	5,248.5	5,093.4	25.0	23.0	178.88	-718.1	863.7	1,585.8	1,545.4	40.36	39.289		
5,400.0	5,193.4	5,348.5	5,193.4	25.1	23.1	178.88	-718.1	863.7	1,585.8	1,545.2	40.59	39.064		
5,500.0	5,293.4	5,448.5	5,293.4	25.2	23.2	178.88	-718.1	863.7	1,585.8	1,544.9	40.83	38.837		
5,600.0	5,393.4	5,548.5	5,393.4	25.3	23.3	178.88	-718.1	863.7	1,585.8	1,544.7	41.07	38.610		
5,700.0	5,493.4	5,648.5	5,493.4	25.4	23.4	178.88	-718.1	863.7	1,585.8	1,544.5	41.32	38.383		
5,800.0	5,593.4	5,748.5	5,593.4	25.5	23.5	178.88	-718.1	863.7	1,585.8	1,544.2	41.56	38.154		
5,900.0	5,693.4	5,848.5	5,693.4	25.6	23.6	178.88	-718.1	863.7	1,585.8	1,544.0	41.81	37.926		
6,000.0	5,793.4	5,948.5	5,793.4	25.7	23.7	178.88	-718.1	863.7	1,585.8	1,543.7	42.07	37.697		
6,100.0	5,893.4	6,048.5	5,893.4	25.8	23.8	178.88	-718.1	863.7	1,585.8	1,543.5	42.32	37.468		
6,200.0	5,993.4	6,148.5	5,993.4	26.0	23.9	178.88	-718.1	863.7	1,585.8	1,543.2	42.58	37.239		
6,300.0	6,093.4	6,248.5	6,093.4	26.1	24.1	178.88	-718.1	863.7	1,585.8	1,542.9	42.85	37.010		
6,400.0	6,193.4	6,348.5	6,193.4	26.2	24.2	178.88	-718.1	863.7	1,585.8	1,542.7	43.11	36.782		
6,500.0	6,293.4	6,448.5	6,293.4	26.3	24.3	178.88	-718.1	863.7	1,585.8	1,542.4	43.38	36.553		
6,600.0	6,393.4	6,548.5	6,393.4	26.4	24.4	178.88	-718.1	863.7	1,585.8	1,542.1	43.65	36.325		
6,700.0	6,493.4	6,648.5	6,493.4	26.5	24.5	178.88	-718.1	863.7	1,585.8	1,541.8	43.93	36.098		
6,800.0	6,593.4	6,748.5	6,593.4	26.6	24.6	178.88	-718.1	863.7	1,585.8	1,541.6	44.21	35.871		
6,900.0	6,693.4	6,848.5	6,693.4	26.7	24.8	178.88	-718.1	863.7	1,585.8	1,541.3	44.49	35.644		
7,000.0	6,793.4	6,948.5	6,793.4	26.9	24.9	178.88	-718.1	863.7	1,585.8	1,541.0	44.77	35.418		
7,100.0	6,893.4	7,048.5	6,893.4	27.0	25.0	178.88	-718.1	863.7	1,585.8	1,540.7	45.06	35.193		
7,200.0	6,993.4	7,148.5	6,993.4	27.1	25.1	178.88	-718.1	863.7	1,585.8	1,540.4	45.35	34.969		
7,300.0	7,093.4	7,248.5	7,093.4	27.2	25.3	178.88	-718.1	863.7	1,585.8	1,540.1	45.64	34.745		
7,400.0	7,193.4	7,348.5	7,193.4	27.4	25.4	178.88	-718.1	863.7	1,585.8	1,539.8	45.93	34.523		
7,500.0	7,293.4	7,448.5	7,293.4	27.5	25.5	178.88	-718.1	863.7	1,585.8	1,539.5	46.23	34.301		
7,598.6	7,392.0	7,547.1	7,392.0	27.6	25.7	178.88	-718.1	863.7	1,585.8	1,539.3	46.53	34.084		

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 43C-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-102.30	-4.9	-22.5	23.0					
100.0	100.0	100.0	100.0	0.1	0.1	-102.30	-4.9	-22.5	23.0	22.9	0.19	123.517		
200.0	200.0	200.0	200.0	0.3	0.3	-102.30	-4.9	-22.5	23.0	22.4	0.64	36.226		
300.0	300.0	300.0	300.0	0.5	0.5	-102.30	-4.9	-22.5	23.0	22.0	1.09	21.226		
400.0	400.0	400.0	400.0	0.8	0.8	-102.30	-4.9	-22.5	23.0	21.5	1.54	15.010		
500.0	500.0	500.0	500.0	1.0	1.0	-102.30	-4.9	-22.5	23.0	21.1	1.98	11.610		
600.0	600.0	600.0	600.0	1.2	1.2	-102.30	-4.9	-22.5	23.0	20.6	2.43	9.466		
700.0	700.0	700.0	700.0	1.4	1.4	-102.30	-4.9	-22.5	23.0	20.2	2.88	7.991		
800.0	800.0	800.0	800.0	1.7	1.7	-102.30	-4.9	-22.5	23.0	19.7	3.33	6.913		
900.0	900.0	900.0	900.0	1.9	1.9	-102.30	-4.9	-22.5	23.0	19.3	3.78	6.091		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-102.30	-4.9	-22.5	23.0	18.8	4.23	5.444		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-102.30	-4.9	-22.5	23.0	18.5	4.57	5.043 CC, ES		
1,100.0	1,100.0	1,100.1	1,100.1	2.3	2.3	177.54	-5.0	-22.5	23.2	18.5	4.67	4.964 SF		
1,175.0	1,174.9	1,175.2	1,175.2	2.5	2.5	175.35	-5.9	-21.7	25.5	20.6	4.95	5.149		
1,200.0	1,199.9	1,200.2	1,200.2	2.5	2.5	-177.66	-6.4	-21.2	26.9	21.9	5.05	5.328		
1,300.0	1,299.4	1,299.7	1,299.6	2.8	2.7	-168.97	-8.4	-19.6	35.8	30.4	5.44	6.586		
1,400.0	1,398.1	1,398.3	1,398.2	3.0	2.9	-170.11	-10.5	-17.9	50.7	44.8	5.83	8.695		
1,500.0	1,495.8	1,495.6	1,495.4	3.3	3.1	-174.38	-15.0	-15.4	72.5	66.3	6.20	11.689		
1,600.0	1,591.9	1,594.3	1,593.7	3.7	3.3	-179.56	-21.1	-8.7	98.9	92.3	6.59	15.001		
1,693.3	1,680.0	1,682.4	1,681.2	4.1	3.5	177.04	-26.7	-1.0	128.4	121.4	6.95	18.469		
1,700.0	1,686.3	1,688.6	1,687.4	4.2	3.5	176.78	-27.1	-0.4	130.7	123.7	6.98	18.717		
1,800.0	1,779.8	1,782.1	1,780.3	4.7	3.7	173.75	-33.0	7.8	165.6	158.2	7.48	22.136		
1,900.0	1,873.2	1,875.5	1,873.2	5.3	4.0	171.77	-38.9	16.0	200.8	192.8	8.00	25.091		
2,000.0	1,966.7	1,968.9	1,966.0	5.9	4.2	170.38	-44.8	24.2	236.1	227.6	8.54	27.643		
2,100.0	2,060.2	2,057.5	2,053.9	6.5	4.5	168.96	-52.0	33.1	272.3	263.2	9.11	29.900		
2,200.0	2,153.6	2,143.7	2,138.6	7.2	4.7	167.03	-62.7	44.6	310.5	300.8	9.73	31.930		
2,300.0	2,247.1	2,227.4	2,220.1	7.8	5.0	164.83	-76.6	58.2	351.0	340.6	10.40	33.743		
2,400.0	2,340.6	2,308.4	2,297.8	8.5	5.4	162.52	-93.2	73.6	393.8	382.7	11.13	35.376		
2,500.0	2,434.0	2,386.3	2,371.5	9.2	5.8	160.20	-112.1	90.6	439.3	427.4	11.93	36.842		
2,600.0	2,527.5	2,461.1	2,440.9	9.9	6.2	157.95	-132.9	108.8	487.6	474.8	12.77	38.174		
2,700.0	2,620.9	2,532.5	2,506.1	10.5	6.7	155.79	-155.2	127.9	538.6	524.9	13.65	39.453		
2,800.0	2,714.4	2,600.0	2,566.3	11.2	7.2	153.78	-178.3	147.4	592.3	577.8	14.55	40.715		
2,900.0	2,807.9	2,670.3	2,627.7	11.9	7.7	151.73	-204.5	169.3	648.8	633.3	15.53	41.789		
3,000.0	2,901.3	2,742.8	2,690.4	12.6	8.4	149.79	-232.7	192.6	707.0	690.5	16.55	42.729		
3,100.0	2,994.8	2,821.3	2,758.2	13.3	9.1	147.97	-263.2	217.9	765.9	748.3	17.61	43.494		
3,200.0	3,088.3	2,899.8	2,825.9	14.0	9.8	146.41	-293.6	243.2	825.2	806.5	18.67	44.198		
3,300.0	3,181.7	2,978.3	2,893.7	14.7	10.6	145.04	-324.1	268.4	884.8	865.1	19.73	44.838		
3,400.0	3,275.2	3,056.8	2,961.5	15.4	11.4	143.85	-354.6	293.7	944.8	924.0	20.79	45.433		
3,500.0	3,368.7	3,135.3	3,029.3	16.1	12.1	142.79	-385.1	319.0	1,005.0	983.1	21.85	45.987		
3,600.0	3,462.1	3,213.8	3,097.1	16.8	12.9	141.84	-415.6	344.2	1,065.4	1,042.5	22.91	46.501		
3,700.0	3,555.6	3,292.3	3,164.8	17.5	13.7	141.00	-446.1	369.5	1,125.9	1,102.0	23.97	46.979		
3,800.0	3,649.0	3,370.8	3,232.6	18.2	14.5	140.24	-476.5	394.8	1,186.6	1,161.6	25.02	47.424		
3,900.0	3,742.5	3,449.3	3,300.4	18.9	15.3	139.55	-507.0	420.0	1,247.5	1,221.4	26.08	47.840		
4,000.0	3,836.0	3,527.8	3,368.2	19.6	16.1	138.92	-537.5	445.3	1,308.4	1,281.3	27.13	48.230		
4,100.0	3,929.4	3,606.3	3,436.0	20.3	16.9	138.35	-568.0	470.6	1,369.4	1,341.3	28.18	48.597		
4,200.0	4,022.9	3,684.8	3,503.8	21.0	17.8	137.83	-598.5	495.9	1,430.5	1,401.3	29.23	48.939		
4,300.0	4,116.4	3,763.3	3,571.5	21.7	18.6	137.35	-629.0	521.1	1,491.7	1,461.4	30.28	49.262		
4,400.0	4,209.8	3,841.8	3,639.3	22.4	19.4	136.91	-659.5	546.4	1,552.9	1,521.6	31.33	49.566		
4,419.3	4,227.9	3,856.9	3,652.4	22.6	19.5	136.82	-665.3	551.3	1,564.8	1,533.2	31.53	49.622		
4,500.0	4,303.9	3,920.9	3,707.6	23.1	20.2	137.68	-690.2	571.9	1,613.2	1,580.7	32.54	49.584		
4,600.0	4,399.5	4,001.7	3,777.4	23.5	21.1	138.51	-721.6	597.9	1,670.6	1,636.9	33.69	49.587		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 43C-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,700.0	4,496.6	4,084.0	3,848.5	23.9	21.9	139.12	-753.5	624.4	1,724.8	1,690.0	34.80	49.568			
4,800.0	4,594.8	4,167.6	3,920.7	24.3	22.8	139.54	-786.0	651.3	1,775.8	1,740.0	35.84	49.547			
4,900.0	4,693.8	4,252.3	3,993.8	24.5	23.7	139.79	-818.9	678.5	1,823.6	1,786.8	36.81	49.539			
5,000.0	4,793.4	4,337.8	4,067.6	24.7	24.6	139.88	-852.1	706.1	1,868.3	1,830.6	37.70	49.557			
5,100.0	4,893.4	4,422.2	4,141.6	24.9	24.9	139.94	-885.9	733.7	1,911.2	1,873.2	38.67	49.575			
5,200.0	4,993.4	4,506.6	4,216.0	25.1	25.1	140.00	-919.7	761.3	1,955.1	1,916.6	39.64	49.593			
5,300.0	5,093.4	4,591.0	4,290.4	25.3	25.3	140.06	-953.5	788.9	1,999.0	1,959.6	40.61	49.611			
5,400.0	5,193.4	4,675.4	4,364.8	25.5	25.5	140.12	-987.3	816.5	2,042.8	1,999.6	41.58	49.629			
5,500.0	5,293.4	4,759.8	4,439.2	25.7	25.7	140.18	-1,021.1	844.1	2,086.7	2,039.6	42.55	49.647			
5,600.0	5,393.4	4,844.2	4,513.6	25.9	25.9	140.24	-1,054.9	871.7	2,130.6	2,079.6	43.52	49.665			
5,700.0	5,493.4	4,928.6	4,588.0	26.1	26.1	140.30	-1,088.7	899.3	2,174.5	2,119.6	44.49	49.683			
5,800.0	5,593.4	5,013.0	4,662.4	26.3	26.3	140.36	-1,122.5	926.9	2,218.4	2,159.6	45.46	49.701			
5,900.0	5,693.4	5,097.4	4,736.8	26.5	26.5	140.42	-1,156.3	954.5	2,262.3	2,199.6	46.43	49.719			
6,000.0	5,793.4	5,181.8	4,811.2	26.7	26.7	140.48	-1,190.1	982.1	2,306.2	2,239.6	47.40	49.737			
6,100.0	5,893.4	5,266.2	4,885.6	26.9	26.9	140.54	-1,223.9	1,009.7	2,350.1	2,279.6	48.37	49.755			
6,200.0	5,993.4	5,350.6	4,960.0	27.1	27.1	140.60	-1,257.7	1,037.3	2,394.0	2,319.6	49.34	49.773			
6,300.0	6,093.4	5,435.0	5,034.4	27.3	27.3	140.66	-1,291.5	1,064.9	2,437.9	2,359.6	50.31	49.791			
6,400.0	6,193.4	5,519.4	5,108.8	27.5	27.5	140.72	-1,325.3	1,092.5	2,481.8	2,399.6	51.28	49.809			
6,500.0	6,293.4	5,603.8	5,183.2	27.7	27.7	140.78	-1,359.1	1,120.1	2,525.7	2,439.6	52.25	49.827			
6,600.0	6,393.4	5,688.2	5,257.6	27.9	27.9	140.84	-1,392.9	1,147.7	2,569.6	2,479.6	53.22	49.845			
6,700.0	6,493.4	5,772.6	5,332.0	28.1	28.1	140.90	-1,426.7	1,175.3	2,613.5	2,519.6	54.19	49.863			
6,800.0	6,593.4	5,857.0	5,406.4	28.3	28.3	140.96	-1,460.5	1,202.9	2,657.4	2,559.6	55.16	49.881			
6,900.0	6,693.4	5,941.4	5,480.8	28.5	28.5	141.02	-1,494.3	1,230.5	2,701.3	2,599.6	56.13	49.899			
7,000.0	6,793.4	6,025.8	5,555.2	28.7	28.7	141.08	-1,528.1	1,258.1	2,745.2	2,639.6	57.10	49.917			
7,100.0	6,893.4	6,110.2	5,629.6	28.9	28.9	141.14	-1,561.9	1,285.7	2,789.1	2,679.6	58.07	49.935			
7,200.0	6,993.4	6,194.6	5,704.0	29.1	29.1	141.20	-1,595.7	1,313.3	2,833.0	2,719.6	59.04	49.953			
7,300.0	7,093.4	6,279.0	5,778.4	29.3	29.3	141.26	-1,629.5	1,340.9	2,876.9	2,759.6	60.01	49.971			
7,400.0	7,193.4	6,363.4	5,852.8	29.5	29.5	141.32	-1,663.3	1,368.5	2,920.8	2,799.6	60.98	49.989			
7,500.0	7,293.4	6,447.8	5,927.2	29.7	29.7	141.38	-1,697.1	1,396.1	2,964.7	2,839.6	61.95	49.999			
7,598.6	7,392.0	6,531.4	6,001.6	29.9	29.9	141.44	-1,730.9	1,423.7	3,008.6	2,879.6	62.92	50.009			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 43D-14-06-92 - Wellbore #1 - Design #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-147.04	-34.9	-22.6	41.6					
100.0	100.0	100.0	100.0	0.1	0.1	-147.04	-34.9	-22.6	41.6	41.4	0.19	222.974		
200.0	200.0	200.0	200.0	0.3	0.3	-147.04	-34.9	-22.6	41.6	41.0	0.64	65.395		
300.0	300.0	300.0	300.0	0.5	0.5	-147.04	-34.9	-22.6	41.6	40.5	1.09	38.316		
400.0	400.0	400.0	400.0	0.8	0.8	-147.04	-34.9	-22.6	41.6	40.1	1.54	27.096		
500.0	500.0	500.0	500.0	1.0	1.0	-147.04	-34.9	-22.6	41.6	39.6	1.98	20.959		
600.0	600.0	600.0	600.0	1.2	1.2	-147.04	-34.9	-22.6	41.6	39.2	2.43	17.089		
700.0	700.0	700.0	700.0	1.4	1.4	-147.04	-34.9	-22.6	41.6	38.7	2.88	14.425		
800.0	800.0	800.0	800.0	1.7	1.7	-147.04	-34.9	-22.6	41.6	38.3	3.33	12.479		
900.0	900.0	900.0	900.0	1.9	1.9	-147.04	-34.9	-22.6	41.6	37.8	3.78	10.996		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-147.04	-34.9	-22.6	41.6	37.4	4.23	9.828		
1,075.0	1,075.0	1,075.0	1,075.0	2.3	2.3	-147.04	-34.9	-22.6	41.6	37.0	4.57	9.103 CC, ES		
1,100.0	1,100.0	1,099.6	1,099.6	2.3	2.3	132.94	-35.1	-22.6	41.8	37.2	4.67	8.957 SF		
1,175.0	1,174.9	1,173.3	1,173.3	2.5	2.5	132.66	-37.7	-21.6	45.5	40.5	4.95	9.184		
1,200.0	1,199.9	1,198.5	1,198.4	2.5	2.5	140.58	-39.1	-20.9	47.6	42.5	5.06	9.407		
1,300.0	1,299.4	1,299.3	1,298.8	2.8	2.7	152.36	-45.3	-14.3	58.0	52.5	5.49	10.574		
1,400.0	1,398.1	1,398.3	1,396.7	3.0	3.0	152.10	-52.0	-1.9	72.7	66.8	5.93	12.258		
1,500.0	1,495.8	1,491.4	1,488.2	3.3	3.2	149.73	-62.0	12.7	96.4	90.0	6.41	15.053		
1,600.0	1,591.9	1,580.2	1,574.5	3.7	3.5	147.75	-76.1	28.2	130.4	123.4	6.93	18.804		
1,693.3	1,680.0	1,658.3	1,649.4	4.1	3.8	146.41	-92.1	43.1	170.5	163.1	7.46	22.843		
1,700.0	1,686.3	1,663.7	1,654.5	4.2	3.8	146.32	-93.4	44.2	173.7	166.2	7.51	23.134		
1,800.0	1,779.8	1,742.4	1,728.9	4.7	4.2	144.88	-113.2	60.5	223.0	214.8	8.19	27.238		
1,900.0	1,873.2	1,817.3	1,798.5	5.3	4.6	143.53	-135.2	77.0	275.9	267.0	8.90	30.987		
2,000.0	1,966.7	1,888.1	1,863.3	5.9	5.0	142.30	-158.8	93.6	332.1	322.5	9.65	34.423		
2,100.0	2,060.2	1,955.2	1,923.3	6.5	5.5	141.19	-183.6	110.0	391.5	381.1	10.42	37.589		
2,200.0	2,153.6	2,027.1	1,986.6	7.2	6.1	140.10	-212.3	128.4	453.5	442.2	11.24	40.352		
2,300.0	2,247.1	2,105.1	2,055.2	7.8	6.8	139.18	-243.7	148.3	515.8	503.7	12.08	42.685		
2,400.0	2,340.6	2,183.0	2,123.7	8.5	7.5	138.45	-275.0	168.3	578.1	565.2	12.95	44.652		
2,500.0	2,434.0	2,261.0	2,192.3	9.2	8.2	137.86	-306.4	188.2	640.5	626.7	13.82	46.337		
2,600.0	2,527.5	2,339.0	2,260.9	9.9	8.9	137.38	-337.8	208.2	702.9	688.2	14.71	47.792		
2,700.0	2,620.9	2,417.0	2,329.4	10.5	9.6	136.97	-369.1	228.2	765.4	749.8	15.60	49.056		
2,800.0	2,714.4	2,495.0	2,398.0	11.2	10.3	136.63	-400.5	248.1	827.9	811.4	16.50	50.160		
2,900.0	2,807.9	2,573.0	2,466.5	11.9	11.1	136.33	-431.9	268.1	890.4	873.0	17.41	51.127		
3,000.0	2,901.3	2,651.0	2,535.1	12.6	11.8	136.08	-463.2	288.0	952.9	934.5	18.33	51.985		
3,100.0	2,994.8	2,729.0	2,603.7	13.3	12.6	135.85	-494.6	308.0	1,015.4	996.1	19.25	52.750		
3,200.0	3,088.3	2,807.0	2,672.2	14.0	13.3	135.65	-526.0	328.0	1,077.9	1,057.7	20.17	53.434		
3,300.0	3,181.7	2,885.0	2,740.8	14.7	14.1	135.48	-557.3	347.9	1,140.5	1,119.4	21.10	54.047		
3,400.0	3,275.2	2,962.9	2,809.3	15.4	14.8	135.32	-588.7	367.9	1,203.0	1,181.0	22.03	54.601		
3,500.0	3,368.7	3,040.9	2,877.9	16.1	15.6	135.17	-620.1	387.8	1,265.5	1,242.6	22.97	55.103		
3,600.0	3,462.1	3,118.9	2,946.4	16.8	16.3	135.04	-651.4	407.8	1,328.1	1,304.2	23.90	55.561		
3,700.0	3,555.6	3,196.9	3,015.0	17.5	17.1	134.93	-682.8	427.7	1,390.6	1,365.8	24.84	55.979		
3,800.0	3,649.0	3,274.9	3,083.6	18.2	17.8	134.82	-714.2	447.7	1,453.2	1,427.4	25.78	56.361		
3,900.0	3,742.5	3,352.9	3,152.1	18.9	18.6	134.72	-745.5	467.7	1,515.7	1,489.0	26.73	56.713		
4,000.0	3,836.0	3,430.9	3,220.7	19.6	19.4	134.63	-776.9	487.6	1,578.3	1,550.6	27.67	57.038		
4,100.0	3,929.4	3,508.9	3,289.2	20.3	20.1	134.54	-808.3	507.6	1,640.9	1,612.3	28.62	57.338		
4,200.0	4,022.9	3,586.9	3,357.8	21.0	20.9	134.47	-839.6	527.5	1,703.4	1,673.9	29.57	57.616		
4,300.0	4,116.4	3,664.9	3,426.4	21.7	21.7	134.39	-871.0	547.5	1,766.0	1,735.5	30.51	57.874		
4,400.0	4,209.8	3,742.8	3,494.9	22.4	22.4	134.33	-902.4	567.5	1,828.6	1,797.1	31.46	58.115		
4,419.3	4,227.9	3,757.9	3,508.1	22.6	22.6	134.31	-908.4	571.3	1,840.6	1,809.0	31.65	58.159		
4,500.0	4,303.9	3,821.5	3,564.1	23.1	23.2	135.55	-934.0	587.6	1,890.2	1,857.5	32.66	57.877		
4,600.0	4,399.5	3,902.2	3,635.0	23.5	24.0	136.82	-966.5	608.2	1,948.9	1,915.1	33.81	57.640		

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

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

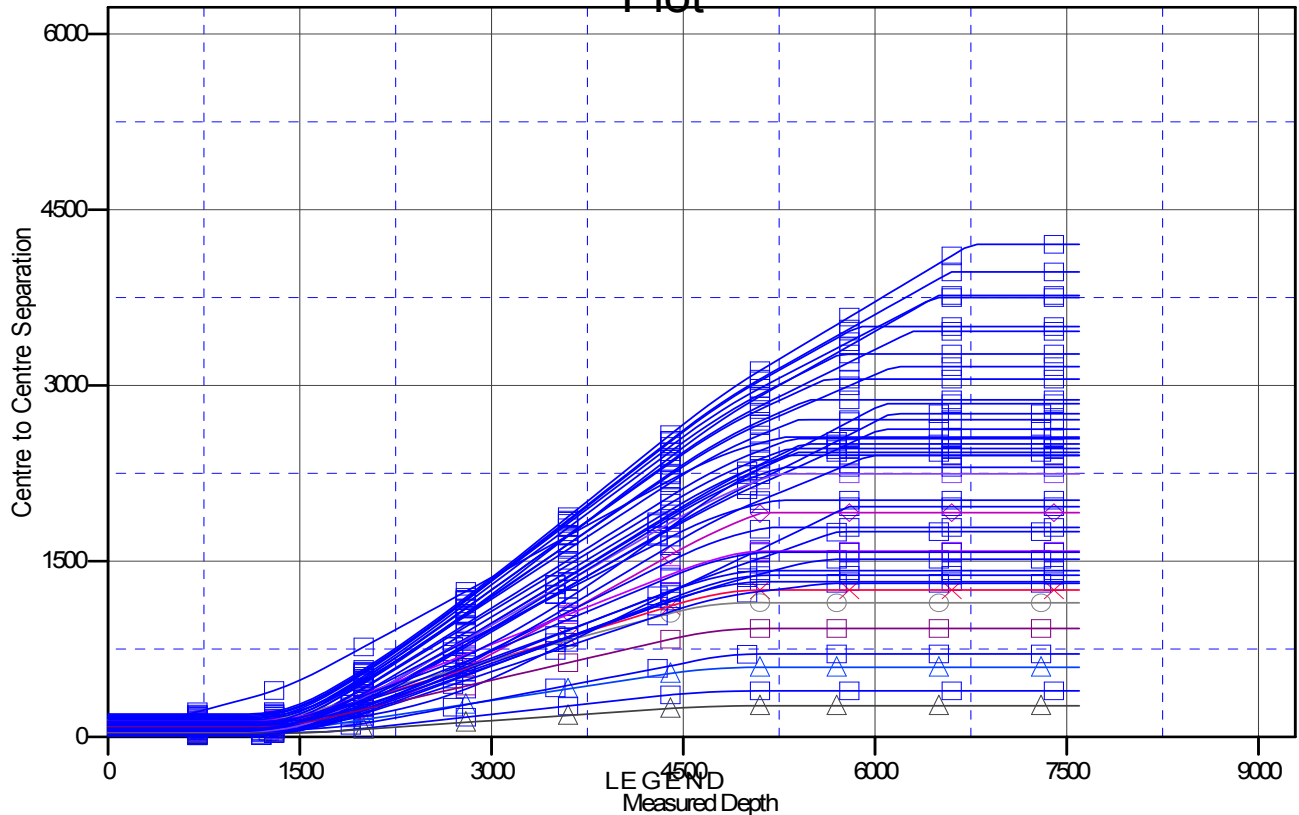
Offset Design														Offset Site Error:	0.0 usft
Valley Farms G - Valley Farms G 43D-14-06-92 - Wellbore #1 - Design #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,700.0	4,496.6	3,984.7	3,707.5	23.9	24.8	137.84	-999.6	629.4	2,004.5	1,969.6	34.91	57.424			
4,800.0	4,594.8	4,068.8	3,781.5	24.3	25.6	138.63	-1,033.5	650.9	2,056.9	2,021.0	35.93	57.246			
4,900.0	4,693.8	4,154.3	3,856.6	24.5	26.5	139.22	-1,067.8	672.7	2,106.1	2,069.2	36.87	57.116			
5,000.0	4,793.4	4,240.8	3,932.7	24.7	27.3	139.64	-1,102.7	694.9	2,151.9	2,114.2	37.72	57.045			
5,100.0	4,893.4	4,328.3	4,009.6	24.9	28.2	139.89	-1,137.8	717.3	2,194.4	2,155.9	38.47	57.038			
5,113.6	4,907.0	4,340.3	4,020.1	24.9	28.3	-176.80	-1,142.6	720.3	2,199.9	2,161.3	38.57	57.043			
5,200.0	4,993.4	4,416.2	4,086.8	24.9	29.1	-177.39	-1,173.2	739.8	2,234.8	2,195.7	39.09	57.175			
5,300.0	5,093.4	5,467.2	5,093.4	25.0	33.5	179.04	-1,378.1	870.2	2,245.8	2,203.8	42.00	53.470			
5,400.0	5,193.4	5,567.2	5,193.4	25.1	33.6	179.04	-1,378.1	870.2	2,245.8	2,203.6	42.22	53.194			
5,500.0	5,293.4	5,667.2	5,293.4	25.2	33.7	179.04	-1,378.1	870.2	2,245.8	2,203.4	42.44	52.916			
5,600.0	5,393.4	5,767.2	5,393.4	25.3	33.7	179.04	-1,378.1	870.2	2,245.8	2,203.1	42.67	52.636			
5,700.0	5,493.4	5,867.2	5,493.4	25.4	33.8	179.04	-1,378.1	870.2	2,245.8	2,202.9	42.90	52.355			
5,800.0	5,593.4	5,967.2	5,593.4	25.5	33.9	179.04	-1,378.1	870.2	2,245.8	2,202.7	43.13	52.073			
5,900.0	5,693.4	6,067.2	5,693.4	25.6	33.9	179.04	-1,378.1	870.2	2,245.8	2,202.4	43.36	51.790			
6,000.0	5,793.4	6,167.2	5,793.4	25.7	34.0	179.04	-1,378.1	870.2	2,245.8	2,202.2	43.60	51.506			
6,100.0	5,893.4	6,267.2	5,893.4	25.8	34.1	179.04	-1,378.1	870.2	2,245.8	2,202.0	43.84	51.221			
6,200.0	5,993.4	6,367.2	5,993.4	26.0	34.1	179.04	-1,378.1	870.2	2,245.8	2,201.7	44.09	50.936			
6,300.0	6,093.4	6,467.2	6,093.4	26.1	34.2	179.04	-1,378.1	870.2	2,245.8	2,201.5	44.34	50.650			
6,400.0	6,193.4	6,567.2	6,193.4	26.2	34.3	179.04	-1,378.1	870.2	2,245.8	2,201.2	44.59	50.364			
6,500.0	6,293.4	6,667.2	6,293.4	26.3	34.4	179.04	-1,378.1	870.2	2,245.8	2,201.0	44.85	50.078			
6,600.0	6,393.4	6,767.2	6,393.4	26.4	34.5	179.04	-1,378.1	870.2	2,245.8	2,200.7	45.10	49.791			
6,700.0	6,493.4	6,867.2	6,493.4	26.5	34.5	179.04	-1,378.1	870.2	2,245.8	2,200.4	45.37	49.505			
6,800.0	6,593.4	6,967.2	6,593.4	26.6	34.6	179.04	-1,378.1	870.2	2,245.8	2,200.2	45.63	49.218			
6,900.0	6,693.4	7,067.2	6,693.4	26.7	34.7	179.04	-1,378.1	870.2	2,245.8	2,199.9	45.90	48.932			
7,000.0	6,793.4	7,167.2	6,793.4	26.9	34.8	179.04	-1,378.1	870.2	2,245.8	2,199.6	46.17	48.646			
7,100.0	6,893.4	7,267.2	6,893.4	27.0	34.9	179.04	-1,378.1	870.2	2,245.8	2,199.4	46.44	48.361			
7,200.0	6,993.4	7,367.2	6,993.4	27.1	35.0	179.04	-1,378.1	870.2	2,245.8	2,199.1	46.71	48.076			
7,300.0	7,093.4	7,467.2	7,093.4	27.2	35.0	179.04	-1,378.1	870.2	2,245.8	2,198.8	46.99	47.792			
7,400.0	7,193.4	7,567.2	7,193.4	27.4	35.1	179.04	-1,378.1	870.2	2,245.8	2,198.5	47.27	47.508			
7,500.0	7,293.4	7,667.2	7,293.4	27.5	35.2	179.04	-1,378.1	870.2	2,245.8	2,198.2	47.55	47.226			
7,598.6	7,392.0	7,765.8	7,392.0	27.6	35.3	179.04	-1,378.1	870.2	2,245.8	2,198.0	47.84	46.948			

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Valley Farms G 42A-14-06-92 @ 5640
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Valley Farms G 42A-14-06-92
Coordinate System is US State Plane 1983, Colorado Central Zone
Grid Convergence at Surface is: -1.34°

Ladder Plot



s G24B-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG32A-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG24D-14-06-92, Wellbore #1, Design #1 V0
s G22D-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG31A-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG32B-14-06-92, Wellbore #1, Design #1 V0
s G43C-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG23B-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG21D-14-06-92, Wellbore #1, Design #1 V0
s G43A-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG22C-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG32D-14-06-92, Wellbore #1, Design #1 V0
s G23A-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG24A-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG43D-14-06-92, Wellbore #1, Design #1 V0
s G23D-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG21A-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG23C-14-06-92, Wellbore #1, Design #1 V0
s G33D-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG31C-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG34A-14-06-92, Wellbore #1, Design #1 V0
s G42C-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG21C-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG42B-14-06-92, Wellbore #1, Design #1 V0
s G24C-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG31B-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG42D-14-06-92, Wellbore #1, Design #1 V0
s G21B-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG34D-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG32C-14-06-92, Wellbore #1, Design #1 V0
s G22B-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG41C-14-06-92, Wellbore #1, Design #1 V0	ValleyFarmsG33B-14-06-92, Wellbore #1, Design #1 V0

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Valley Farms G 42A-14-06-92
Project:	Rockies Region	TVD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Reference Site:	Valley Farms G	MD Reference:	Valley Farms G 42A-14-06-92 @ 5640.0usft (PLAN KB)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Valley Farms G 42A-14-06-92	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Valley Farms G 42A-14-06-92 @ 5640
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Valley Farms G 42A-14-06-92
Coordinate System is US State Plane 1983, Colorado Central Zone
Grid Convergence at Surface is: -1.34°

