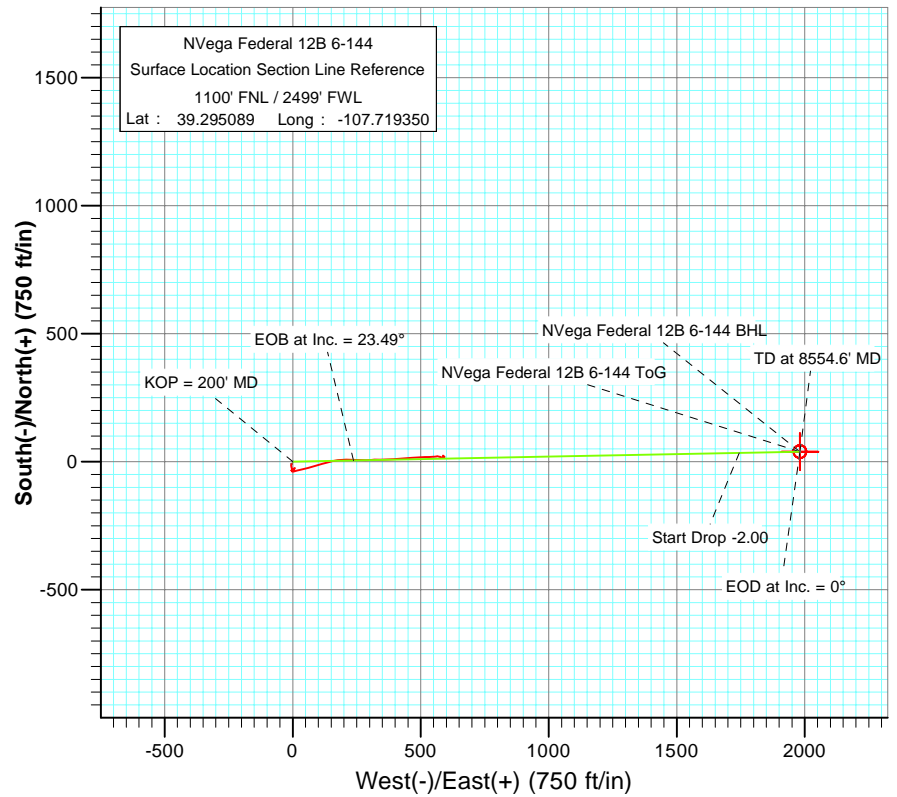


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1374.5	23.49	88.86	1341.9	4.7	237.4	2.00	88.86	237.4	
4	5155.0	23.49	88.86	4809.1	34.7	1744.0	0.00	0.00	1744.3	
5	6329.6	0.00	0.00	5951.0	39.4	1981.3	2.00	180.00	1981.7	NVega Federal 12B 6-144 ToG
6	8554.6	0.00	0.00	8176.0	39.4	1981.3	0.00	0.00	1981.7	NVega Federal 12B 6-144 BHL



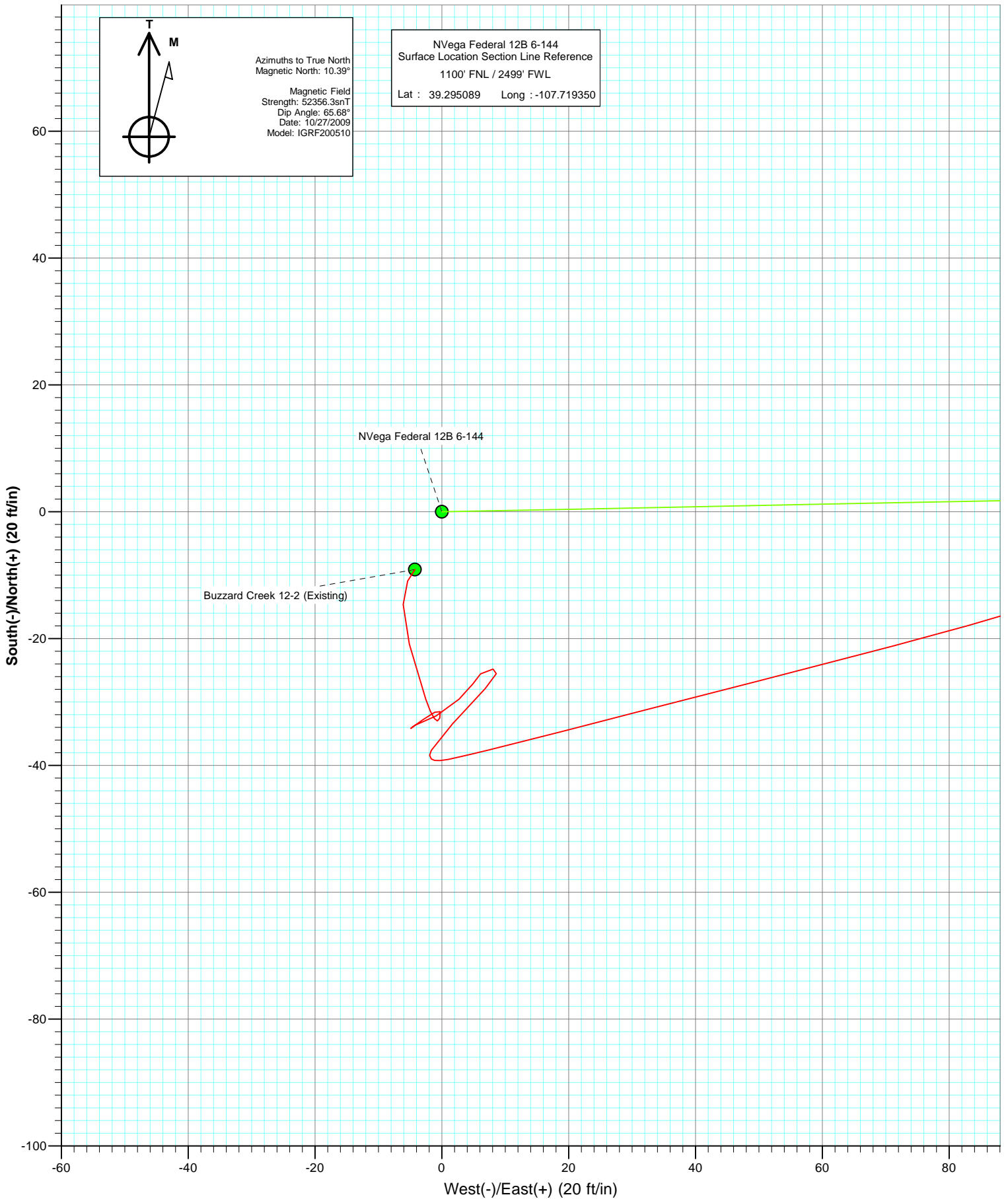
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4971.0	5329.4	Ohio Creek
5246.0	5617.2	Williams Fork
5951.0	6329.6	Top of Gas
7451.0	7829.6	Cameo
7876.0	8254.6	Rollins

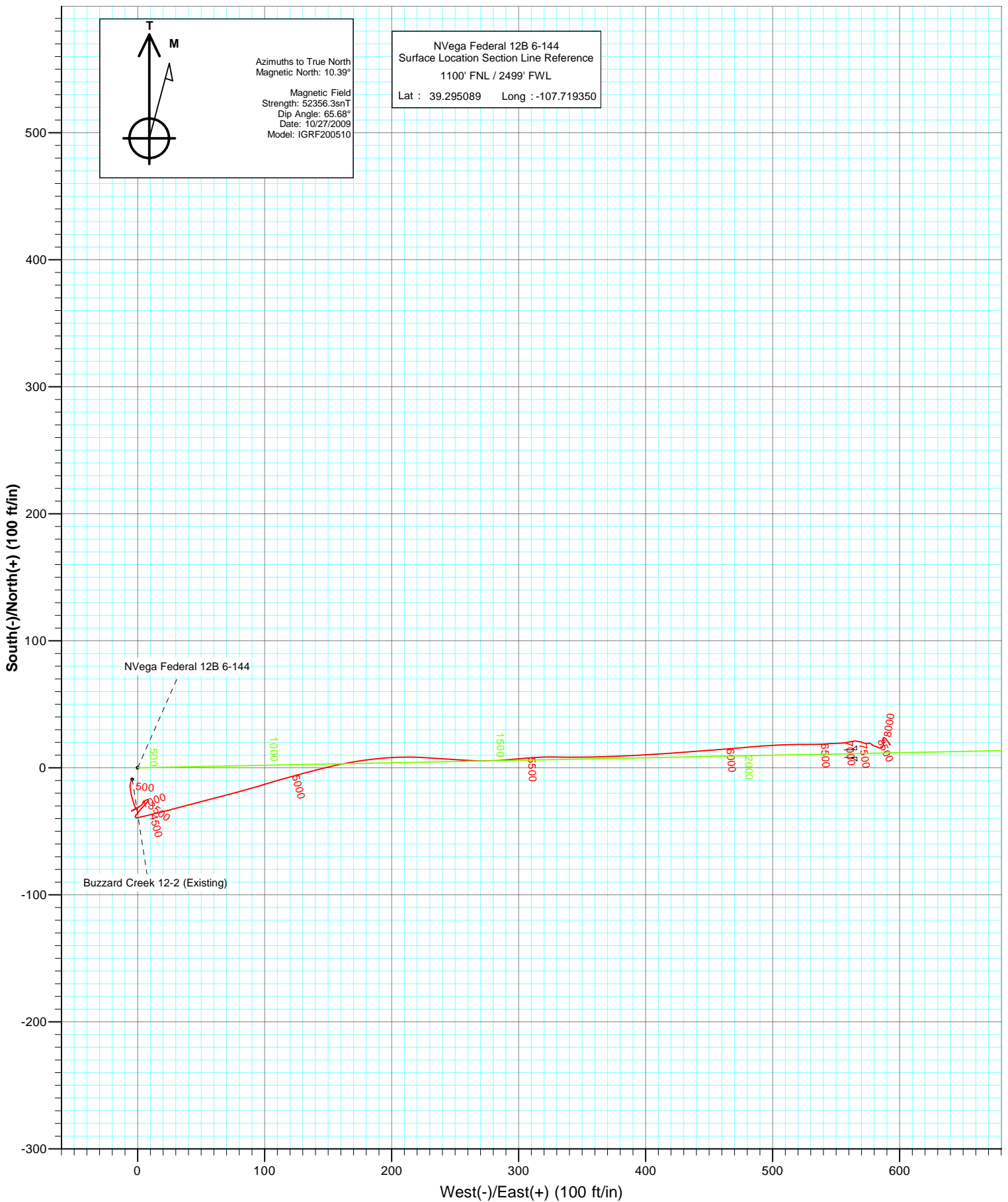


Azimuths to True North
Magnetic North: 10.39°

Magnetic Field
Strength: 52356.3nT
Dip Angle: 65.68°
Date: 10/27/2009
Model: IGRF200510

DESIGN DETAILS: Plan #2				
Job #95xxx KR				
KBE @ 7551.0ft (Delta)				
Target	Azimuth	Origin Type	N/S	E/W
NVega Federal 12B 6-144 BHL	88.86	Slot	0.0	0.0





Planning Report

Database:	US EDM 2003.21 Multi User Db	Local Co-ordinate Reference:	Well NVega Federal 12B 6-144
Company:	Delta Petroleum	TVD Reference:	KBE @ 7551.0ft (Delta)
Project:	North Vega	MD Reference:	KBE @ 7551.0ft (Delta)
Site:	BCU 12B Pad	North Reference:	True
Well:	NVega Federal 12B 6-144	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

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

Site	BCU 12B Pad				
Site Position:		Northing:	1,540,043.80 ft	Latitude:	39.295089
From:	Lat/Long	Easting:	2,371,977.89 ft	Longitude:	-107.719350
Position Uncertainty:	0.0 ft	Slot Radius:	in	Grid Convergence:	-1.40 °

Well	NVega Federal 12B 6-144					
Well Position	+N/-S	0.0 ft	Northing:	1,540,043.80 ft	Latitude:	39.295089
	+E/-W	0.0 ft	Easting:	2,371,977.89 ft	Longitude:	-107.719350
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,533.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/27/2009	10.39	65.68	52,356

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
		0.0	0.0	88.86

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,374.5	23.49	88.86	1,341.9	4.7	237.4	2.00	2.00	0.00	88.86	
5,155.0	23.49	88.86	4,809.1	34.7	1,744.0	0.00	0.00	0.00	0.00	
6,329.6	0.00	0.00	5,951.0	39.4	1,981.3	2.00	-2.00	0.00	180.00	NVega Federal 12B 6
8,554.6	0.00	0.00	8,176.0	39.4	1,981.3	0.00	0.00	0.00	0.00	NVega Federal 12B 6

Planning Report

Database:	US EDM 2003.21 Multi User Db	Local Co-ordinate Reference:	Well NVega Federal 12B 6-144
Company:	Delta Petroleum	TVD Reference:	KBE @ 7551.0ft (Delta)
Project:	North Vega	MD Reference:	KBE @ 7551.0ft (Delta)
Site:	BCU 12B Pad	North Reference:	True
Well:	NVega Federal 12B 6-144	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP = 200' MD
300.0	2.00	88.86	300.0	0.0	1.7	1.7	2.00	2.00	
400.0	4.00	88.86	399.8	0.1	7.0	7.0	2.00	2.00	
500.0	6.00	88.86	499.5	0.3	15.7	15.7	2.00	2.00	
600.0	8.00	88.86	598.7	0.6	27.9	27.9	2.00	2.00	
700.0	10.00	88.86	697.5	0.9	43.5	43.5	2.00	2.00	
800.0	12.00	88.86	795.6	1.2	62.6	62.6	2.00	2.00	
900.0	14.00	88.86	893.1	1.7	85.1	85.1	2.00	2.00	
1,000.0	16.00	88.86	989.6	2.2	111.0	111.0	2.00	2.00	
1,100.0	18.00	88.86	1,085.3	2.8	140.2	140.2	2.00	2.00	
1,200.0	20.00	88.86	1,179.8	3.4	172.7	172.8	2.00	2.00	
1,300.0	22.00	88.86	1,273.2	4.1	208.6	208.6	2.00	2.00	
1,374.5	23.49	88.86	1,341.9	4.7	237.4	237.4	2.00	2.00	EOB at Inc. = 23.49°
1,400.0	23.49	88.86	1,365.3	4.9	247.5	247.6	0.00	0.00	
1,500.0	23.49	88.86	1,457.0	5.7	287.4	287.4	0.00	0.00	
1,600.0	23.49	88.86	1,548.7	6.5	327.2	327.3	0.00	0.00	
1,700.0	23.49	88.86	1,640.4	7.3	367.1	367.1	0.00	0.00	
1,800.0	23.49	88.86	1,732.1	8.1	406.9	407.0	0.00	0.00	
1,900.0	23.49	88.86	1,823.8	8.9	446.8	446.9	0.00	0.00	
2,000.0	23.49	88.86	1,915.5	9.7	486.6	486.7	0.00	0.00	
2,100.0	23.49	88.86	2,007.2	10.5	526.5	526.6	0.00	0.00	
2,200.0	23.49	88.86	2,099.0	11.3	566.3	566.4	0.00	0.00	Surface Casing
2,300.0	23.49	88.86	2,190.7	12.1	606.2	606.3	0.00	0.00	
2,400.0	23.49	88.86	2,282.4	12.9	646.0	646.2	0.00	0.00	
2,500.0	23.49	88.86	2,374.1	13.6	685.9	686.0	0.00	0.00	
2,600.0	23.49	88.86	2,465.8	14.4	725.7	725.9	0.00	0.00	
2,700.0	23.49	88.86	2,557.5	15.2	765.6	765.7	0.00	0.00	
2,800.0	23.49	88.86	2,649.2	16.0	805.4	805.6	0.00	0.00	
2,900.0	23.49	88.86	2,741.0	16.8	845.3	845.5	0.00	0.00	
3,000.0	23.49	88.86	2,832.7	17.6	885.1	885.3	0.00	0.00	
3,100.0	23.49	88.86	2,924.4	18.4	925.0	925.2	0.00	0.00	
3,200.0	23.49	88.86	3,016.1	19.2	964.8	965.0	0.00	0.00	
3,300.0	23.49	88.86	3,107.8	20.0	1,004.7	1,004.9	0.00	0.00	
3,400.0	23.49	88.86	3,199.5	20.8	1,044.6	1,044.8	0.00	0.00	
3,500.0	23.49	88.86	3,291.2	21.6	1,084.4	1,084.6	0.00	0.00	
3,600.0	23.49	88.86	3,382.9	22.4	1,124.3	1,124.5	0.00	0.00	
3,700.0	23.49	88.86	3,474.7	23.2	1,164.1	1,164.3	0.00	0.00	
3,800.0	23.49	88.86	3,566.4	24.0	1,204.0	1,204.2	0.00	0.00	
3,900.0	23.49	88.86	3,658.1	24.7	1,243.8	1,244.1	0.00	0.00	
4,000.0	23.49	88.86	3,749.8	25.5	1,283.7	1,283.9	0.00	0.00	
4,100.0	23.49	88.86	3,841.5	26.3	1,323.5	1,323.8	0.00	0.00	
4,200.0	23.49	88.86	3,933.2	27.1	1,363.4	1,363.6	0.00	0.00	
4,300.0	23.49	88.86	4,024.9	27.9	1,403.2	1,403.5	0.00	0.00	
4,400.0	23.49	88.86	4,116.6	28.7	1,443.1	1,443.4	0.00	0.00	
4,500.0	23.49	88.86	4,208.4	29.5	1,482.9	1,483.2	0.00	0.00	
4,600.0	23.49	88.86	4,300.1	30.3	1,522.8	1,523.1	0.00	0.00	
4,700.0	23.49	88.86	4,391.8	31.1	1,562.6	1,562.9	0.00	0.00	
4,800.0	23.49	88.86	4,483.5	31.9	1,602.5	1,602.8	0.00	0.00	
4,900.0	23.49	88.86	4,575.2	32.7	1,642.3	1,642.6	0.00	0.00	
5,000.0	23.49	88.86	4,666.9	33.5	1,682.2	1,682.5	0.00	0.00	

Planning Report

Database:	US EDM 2003.21 Multi User Db	Local Co-ordinate Reference:	Well NVega Federal 12B 6-144
Company:	Delta Petroleum	TVD Reference:	KBE @ 7551.0ft (Delta)
Project:	North Vega	MD Reference:	KBE @ 7551.0ft (Delta)
Site:	BCU 12B Pad	North Reference:	True
Well:	NVega Federal 12B 6-144	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
5,100.0	23.49	88.86	4,758.6	34.3	1,722.0	1,722.4	0.00	0.00	
5,155.0	23.49	88.86	4,809.1	34.7	1,744.0	1,744.3	0.00	0.00	Start Drop -2.00
5,200.0	22.59	88.86	4,850.5	35.0	1,761.6	1,761.9	2.00	-2.00	
5,300.0	20.59	88.86	4,943.5	35.8	1,798.3	1,798.7	2.00	-2.00	
5,329.4	20.00	88.86	4,971.0	36.0	1,808.5	1,808.9	2.00	-2.00	Ohio Creek
5,400.0	18.59	88.86	5,037.7	36.4	1,831.9	1,832.2	2.00	-2.00	
5,500.0	16.59	88.86	5,133.0	37.0	1,862.1	1,862.4	2.00	-2.00	
5,600.0	14.59	88.86	5,229.3	37.6	1,888.9	1,889.3	2.00	-2.00	
5,617.2	14.25	88.86	5,246.0	37.7	1,893.2	1,893.6	2.00	-2.00	Williams Fork
5,700.0	12.59	88.86	5,326.5	38.1	1,912.4	1,912.8	2.00	-2.00	
5,800.0	10.59	88.86	5,424.5	38.5	1,932.5	1,932.9	2.00	-2.00	
5,900.0	8.59	88.86	5,523.1	38.8	1,949.2	1,949.6	2.00	-2.00	
6,000.0	6.59	88.86	5,622.2	39.0	1,962.4	1,962.8	2.00	-2.00	
6,100.0	4.59	88.86	5,721.7	39.2	1,972.1	1,972.5	2.00	-2.00	
6,200.0	2.59	88.86	5,821.5	39.4	1,978.4	1,978.8	2.00	-2.00	
6,300.0	0.59	88.86	5,921.4	39.4	1,981.2	1,981.6	2.00	-2.00	
6,329.6	0.00	0.00	5,951.0	39.4	1,981.3	1,981.7	2.00	-2.00	EOD at Inc. = 0° - Top of Gas - NVega Federal
6,400.0	0.00	0.00	6,021.4	39.4	1,981.3	1,981.7	0.00	0.00	
6,500.0	0.00	0.00	6,121.4	39.4	1,981.3	1,981.7	0.00	0.00	
6,600.0	0.00	0.00	6,221.4	39.4	1,981.3	1,981.7	0.00	0.00	
6,700.0	0.00	0.00	6,321.4	39.4	1,981.3	1,981.7	0.00	0.00	
6,800.0	0.00	0.00	6,421.4	39.4	1,981.3	1,981.7	0.00	0.00	
6,900.0	0.00	0.00	6,521.4	39.4	1,981.3	1,981.7	0.00	0.00	
7,000.0	0.00	0.00	6,621.4	39.4	1,981.3	1,981.7	0.00	0.00	
7,100.0	0.00	0.00	6,721.4	39.4	1,981.3	1,981.7	0.00	0.00	
7,200.0	0.00	0.00	6,821.4	39.4	1,981.3	1,981.7	0.00	0.00	
7,300.0	0.00	0.00	6,921.4	39.4	1,981.3	1,981.7	0.00	0.00	
7,400.0	0.00	0.00	7,021.4	39.4	1,981.3	1,981.7	0.00	0.00	
7,500.0	0.00	0.00	7,121.4	39.4	1,981.3	1,981.7	0.00	0.00	
7,600.0	0.00	0.00	7,221.4	39.4	1,981.3	1,981.7	0.00	0.00	
7,700.0	0.00	0.00	7,321.4	39.4	1,981.3	1,981.7	0.00	0.00	
7,800.0	0.00	0.00	7,421.4	39.4	1,981.3	1,981.7	0.00	0.00	
7,829.6	0.00	0.00	7,451.0	39.4	1,981.3	1,981.7	0.00	0.00	Cameo
7,900.0	0.00	0.00	7,521.4	39.4	1,981.3	1,981.7	0.00	0.00	
8,000.0	0.00	0.00	7,621.4	39.4	1,981.3	1,981.7	0.00	0.00	
8,100.0	0.00	0.00	7,721.4	39.4	1,981.3	1,981.7	0.00	0.00	
8,200.0	0.00	0.00	7,821.4	39.4	1,981.3	1,981.7	0.00	0.00	
8,254.6	0.00	0.00	7,876.0	39.4	1,981.3	1,981.7	0.00	0.00	Rollins
8,300.0	0.00	0.00	7,921.4	39.4	1,981.3	1,981.7	0.00	0.00	
8,400.0	0.00	0.00	8,021.4	39.4	1,981.3	1,981.7	0.00	0.00	
8,500.0	0.00	0.00	8,121.4	39.4	1,981.3	1,981.7	0.00	0.00	
8,554.6	0.00	0.00	8,176.0	39.4	1,981.3	1,981.7	0.00	0.00	TD at 8554.6' MD - NVega Federal 12B 6-144 E

Planning Report

Database:	US EDM 2003.21 Multi User Db	Local Co-ordinate Reference:	Well NVega Federal 12B 6-144
Company:	Delta Petroleum	TVD Reference:	KBE @ 7551.0ft (Delta)
Project:	North Vega	MD Reference:	KBE @ 7551.0ft (Delta)
Site:	BCU 12B Pad	North Reference:	True
Well:	NVega Federal 12B 6-144	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NVega Federal 12B 6-14 - plan hits target center - Point	0.00	0.00	5,951.0	39.4	1,981.3	1,540,034.81	2,373,959.59	39.295197	-107.712349
NVega Federal 12B 6-14 - plan hits target center - Circle (radius 25.0)	0.00	0.00	8,176.0	39.4	1,981.3	1,540,034.81	2,373,959.59	39.295197	-107.712349

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,200.0	2,099.0	Surface Casing	5.500	6.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,329.4	4,971.0	Ohio Creek		0.00	
5,617.2	5,246.0	Williams Fork		0.00	
6,329.6	5,951.0	Top of Gas		0.00	
7,829.6	7,451.0	Cameo		0.00	
8,254.6	7,876.0	Rollins		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP = 200' MD	
1,374.5	1,341.9	4.7	237.4	EOB at Inc. = 23.49°	
5,155.0	4,809.1	34.7	1,744.0	Start Drop -2.00	
6,329.6	5,951.0	39.4	1,981.3	EOD at Inc. = 0°	
8,554.6	8,176.0	39.4	1,981.3	TD at 8554.6' MD	

Anticollision Report

Company:	Delta Petroleum	Local Co-ordinate Reference:	Well NVega Federal 12B 6-144
Project:	North Vega	TVD Reference:	KBE @ 7551.0ft (Delta)
Reference Site:	BCU 12B Pad	MD Reference:	KBE @ 7551.0ft (Delta)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NVega Federal 12B 6-144	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	US EDM 2003.21 Multi User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	Systematic Ellipse
Depth Range:	0.0 to 99,999.0ft	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	10/27/2009		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	8,554.6	Plan #2 (DD)	MWD	Geolink MWD

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
BCU 12B Pad						
Buzzard Creek 12-2 (Existing) - Existing - Existing	0.0	1.7	10.0			
Buzzard Creek 12-2 (Existing) - Existing - Existing	100.0	101.7	10.3	9.9	32.937	ES
Buzzard Creek 12-2 (Existing) - Existing - Existing	300.0	301.5	12.7	11.7	12.872	SF

Anticollision Report

Company:	Delta Petroleum	Local Co-ordinate Reference:	Well NVega Federal 12B 6-144
Project:	North Vega	TVD Reference:	KBE @ 7551.0ft (Delta)
Reference Site:	BCU 12B Pad	MD Reference:	KBE @ 7551.0ft (Delta)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NVega Federal 12B 6-144	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	US EDM 2003.21 Multi User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
BCU 12B Pad - Buzzard Creek 12-2 (Existing) - Existing - Existing													Offset Well Error:	0.0 ft
Survey Program: 330-MWD														
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
0.0	0.0	1.7	1.7	0.0	0.0	-155.00	-9.1	-4.2	10.0					
100.0	100.0	101.7	101.7	0.1	0.2	-154.86	-9.3	-4.4	10.3	9.9	0.31	32.937 ES		
200.0	200.0	201.6	201.6	0.3	0.3	-154.49	-9.8	-4.7	10.8	10.2	0.65	16.663		
300.0	300.0	301.5	301.5	0.5	0.5	124.17	-10.6	-5.2	12.7	11.7	0.99	12.872 SF		
400.0	399.8	401.3	401.3	0.7	0.7	137.83	-11.9	-5.8	17.5	16.2	1.35	12.979		
500.0	499.5	500.9	500.9	0.9	0.9	148.39	-13.6	-6.1	25.8	24.1	1.72	15.017		
600.0	598.7	600.1	600.1	1.2	1.1	155.09	-15.8	-6.0	37.6	35.6	2.09	18.013		
700.0	697.5	699.0	698.9	1.5	1.2	159.25	-18.6	-5.6	52.8	50.4	2.46	21.500		
800.0	795.6	797.3	797.1	1.9	1.4	161.91	-21.8	-4.9	71.3	68.5	2.82	25.256		
900.0	893.1	895.0	894.8	2.3	1.6	163.68	-25.5	-3.9	93.0	89.8	3.19	29.174		
1,000.0	989.6	992.0	991.7	2.8	1.8	164.90	-29.7	-2.5	117.8	114.3	3.55	33.200		
1,100.0	1,085.3	1,088.4	1,088.0	3.4	2.0	166.49	-32.6	-1.2	145.8	141.9	3.87	37.660		
1,200.0	1,179.8	1,183.5	1,183.1	4.0	2.1	168.73	-32.7	-0.4	176.9	172.7	4.17	42.442		
1,300.0	1,273.2	1,274.9	1,274.5	4.7	2.3	170.75	-31.6	-0.2	211.8	207.3	4.46	47.519		
1,374.5	1,341.9	1,341.5	1,341.1	5.2	2.4	171.79	-31.4	-0.6	240.7	236.1	4.67	51.515		
1,400.0	1,365.3	1,364.1	1,363.7	5.4	2.4	172.11	-31.5	-0.9	251.1	246.3	4.75	52.808		
1,500.0	1,457.0	1,452.0	1,451.6	6.2	2.6	173.01	-32.4	-2.4	292.4	287.3	5.08	57.578		
1,600.0	1,548.7	1,546.0	1,545.5	6.9	2.7	173.66	-33.7	-4.3	334.0	328.6	5.41	61.780		
1,700.0	1,640.4	1,643.2	1,642.8	7.7	2.9	174.32	-34.1	-4.9	374.3	368.5	5.73	65.263		
1,800.0	1,732.1	1,740.4	1,739.9	8.4	3.1	174.98	-33.5	-4.0	413.1	407.0	6.06	68.165		
1,900.0	1,823.8	1,832.3	1,831.9	9.2	3.2	175.50	-32.7	-2.8	451.5	445.1	6.38	70.743		
2,000.0	1,915.5	1,924.3	1,923.8	9.9	3.4	175.91	-32.3	-1.5	490.0	483.3	6.71	73.067		
2,100.0	2,007.2	2,016.2	2,015.7	10.7	3.5	176.23	-32.1	-0.3	528.6	521.6	7.03	75.183		
2,200.0	2,099.0	2,107.9	2,107.4	11.5	3.7	176.53	-31.6	0.8	567.2	559.9	7.35	77.148		
2,300.0	2,190.7	2,199.6	2,199.1	12.2	3.8	176.84	-30.8	1.8	606.0	598.3	7.67	78.968		
2,400.0	2,282.4	2,291.2	2,290.7	13.0	4.0	177.13	-29.6	2.7	644.8	636.8	7.99	80.660		
2,500.0	2,374.1	2,381.4	2,380.9	13.8	4.2	177.39	-28.6	3.4	683.8	675.5	8.32	82.229		
2,600.0	2,465.8	2,471.3	2,470.7	14.5	4.3	177.56	-28.2	3.9	723.1	714.5	8.64	83.695		
2,700.0	2,557.5	2,562.9	2,562.4	15.3	4.5	177.70	-28.1	4.3	762.5	753.6	8.97	85.050		
2,800.0	2,649.2	2,654.6	2,654.1	16.1	4.6	177.84	-27.7	4.6	802.0	792.7	9.29	86.317		
2,900.0	2,741.0	2,746.6	2,746.1	16.8	4.8	177.99	-27.0	4.9	841.5	831.9	9.62	87.498		
3,000.0	2,832.7	2,839.6	2,839.1	17.6	4.9	178.13	-26.3	5.3	880.9	871.0	9.95	88.573		
3,100.0	2,924.4	2,932.7	2,932.2	18.4	5.1	178.25	-25.7	5.9	920.2	909.9	10.27	89.563		
3,200.0	3,016.1	3,025.5	3,025.0	19.1	5.3	178.35	-25.3	6.5	959.4	948.8	10.60	90.478		
3,300.0	3,107.8	3,118.1	3,117.6	19.9	5.4	178.44	-25.0	7.2	998.5	987.6	10.93	91.329		

Anticollision Report

Company:	Delta Petroleum	Local Co-ordinate Reference:	Well NVega Federal 12B 6-144
Project:	North Vega	TVD Reference:	KBE @ 7551.0ft (Delta)
Reference Site:	BCU 12B Pad	MD Reference:	KBE @ 7551.0ft (Delta)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NVega Federal 12B 6-144	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	US EDM 2003.21 Multi User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KBE @ 7551.0ft (Delta)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: NVega Federal 12B 6-144
 Coordinate System is US State Plane 1983, Colorado Central Zone
 Grid Convergence at Surface is: -1.40°

