

BONANZA CREEK ENERGY OPERATING

Well Name: **North Platte J-F-24HZ**

Surface Location: North Platte J-F-24HZ SEC.24-5N-63W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4568.0

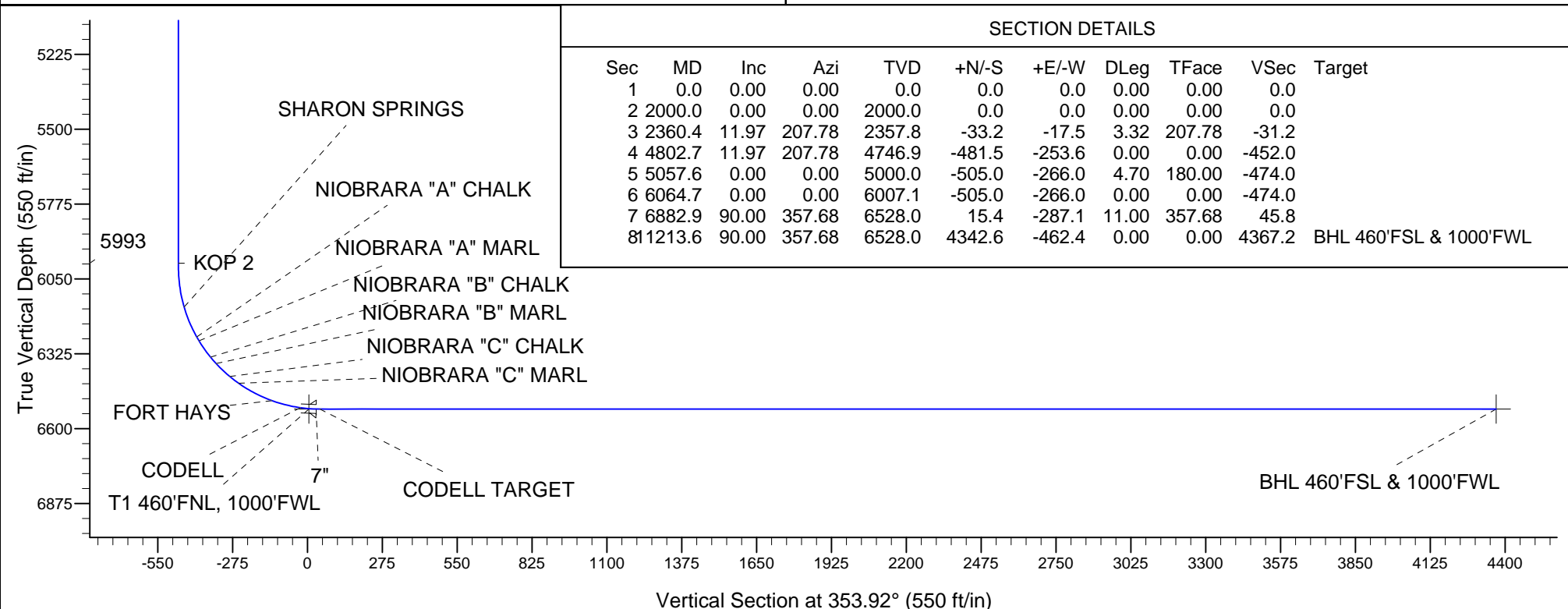
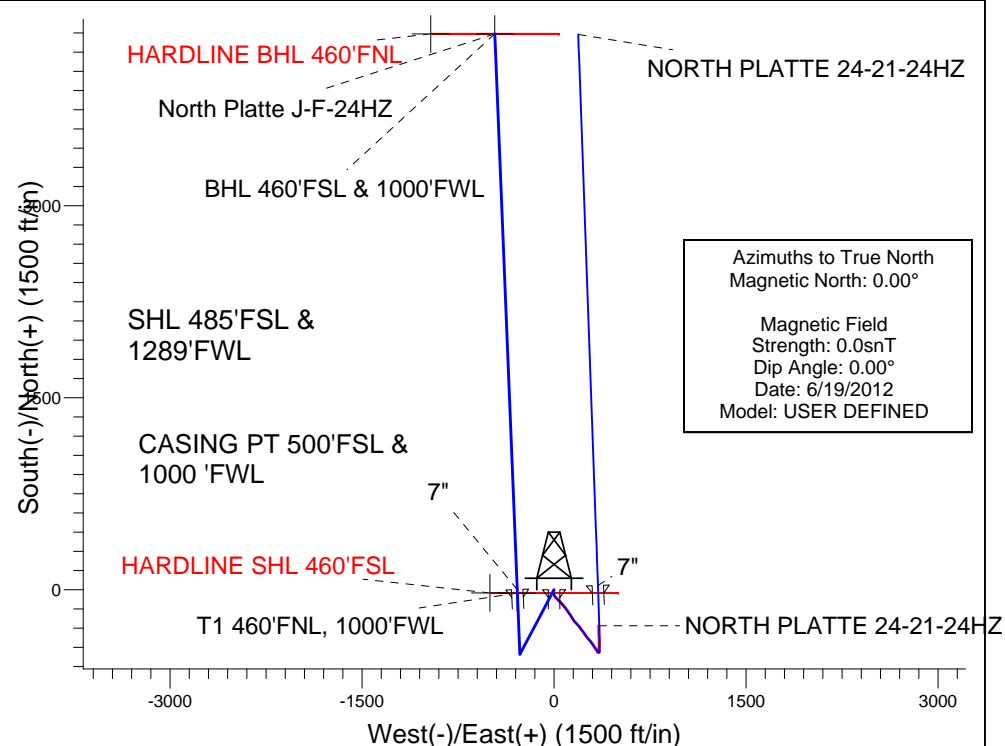
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1382754.17	3309494.44	40.378740	-104.389070	

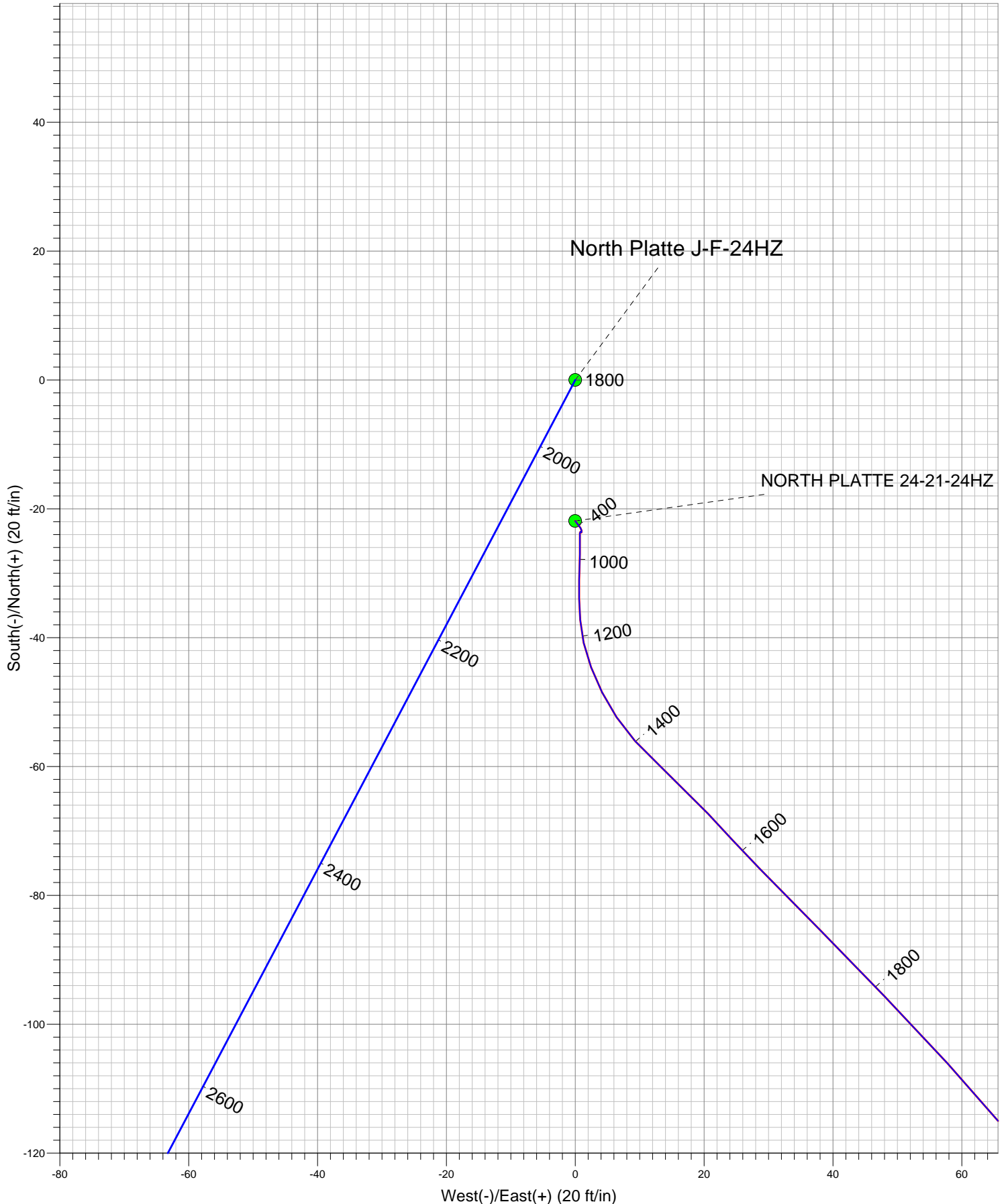
Original Well Elev WELL @ 4580.0ft (Original Well Elev)

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
HARDLINE BHL 460'FNL	1.0	4342.6	-962.4	40.390660	-104.392525	Polygon
HARDLINE SHL 460'FSL	1.0	-25.0	-500.0	40.378671	-104.390865	Polygon
BHL 460'FSL & 1000'FWL	6528.0	4342.6	-462.4	40.390660	-104.390730	Point
T1 460'FNL, 1000'FWL	6528.0	-25.5	-287.0	40.378670	-104.390100	Point

North Platte J-F-24HZ SEC.24-5N-63W
North Platte J-F-24HZ
Plan #2 (6-19-12)
13:43, June 22 2012







Directional

BONANZA CREEK ENERGY OPERATING

SEC.24-T5N-R63W

North Platte J-F-24HZ SEC.24-5N-63W

North Platte J-F-24HZ

Wellbore #1

Plan: Plan #2 (6-19-12)

Standard Planning Report

22 June, 2012

Database:	Landmark	Local Co-ordinate Reference:	Well North Platte J-F-24HZ
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4580.0ft (Original Well Elev)
Project:	SEC.24-T5N-R63W	MD Reference:	WELL @ 4580.0ft (Original Well Elev)
Site:	North Platte J-F-24HZ SEC.24-5N-63W	North Reference:	True
Well:	North Platte J-F-24HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-19-12)		

Project	SEC.24-T5N-R63W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Well	North Platte J-F-24HZ			
Well Position	+N/-S	0.0 ft	Northing:	1,382,754.17 ft
	+E/-W	0.0 ft	Easting:	3,309,494.44 ft
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft
			Latitude:	40.378740
			Longitude:	-104.389070
			Ground Level:	4,568.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	6/19/2012	0.00	0.00	0

Design	Plan #2 (6-19-12)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	353.92

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,360.4	11.97	207.78	2,357.8	-33.2	-17.5	3.32	3.32	0.00	207.78	
4,802.7	11.97	207.78	4,746.9	-481.5	-253.6	0.00	0.00	0.00	0.00	
5,057.6	0.00	0.00	5,000.0	-505.0	-266.0	4.70	-4.70	0.00	180.00	
6,064.7	0.00	0.00	6,007.1	-505.0	-266.0	0.00	0.00	0.00	0.00	
6,882.9	90.00	357.68	6,528.0	15.4	-287.1	11.00	11.00	0.00	357.68	
11,213.6	90.00	357.68	6,528.0	4,342.6	-462.4	0.00	0.00	0.00	0.00	BHL 460'FSL & 10C

Database:	Landmark	Local Co-ordinate Reference:	Well North Platte J-F-24HZ
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4580.0ft (Original Well Elev)
Project:	SEC.24-T5N-R63W	MD Reference:	WELL @ 4580.0ft (Original Well Elev)
Site:	North Platte J-F-24HZ SEC.24-5N-63W	North Reference:	True
Well:	North Platte J-F-24HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-19-12)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
50.0	0.00	0.00	50.0	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
150.0	0.00	0.00	150.0	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
250.0	0.00	0.00	250.0	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
350.0	0.00	0.00	350.0	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
450.0	0.00	0.00	450.0	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
9 5/8"									
550.0	0.00	0.00	550.0	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
650.0	0.00	0.00	650.0	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
750.0	0.00	0.00	750.0	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
850.0	0.00	0.00	850.0	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
950.0	0.00	0.00	950.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,050.0	0.00	0.00	1,050.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,150.0	0.00	0.00	1,150.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,350.0	0.00	0.00	1,350.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,550.0	0.00	0.00	1,550.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,650.0	0.00	0.00	1,650.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,750.0	0.00	0.00	1,750.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,850.0	0.00	0.00	1,850.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,950.0	0.00	0.00	1,950.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 1									
2,050.0	1.66	207.78	2,050.0	-0.6	-0.3	-0.6	3.32	3.32	0.00
2,100.0	3.32	207.78	2,099.9	-2.6	-1.4	-2.4	3.32	3.32	0.00
2,150.0	4.98	207.78	2,149.8	-5.8	-3.0	-5.4	3.32	3.32	0.00
2,200.0	6.64	207.78	2,199.6	-10.2	-5.4	-9.6	3.32	3.32	0.00
2,250.0	8.31	207.78	2,249.1	-16.0	-8.4	-15.0	3.32	3.32	0.00
2,300.0	9.97	207.78	2,298.5	-23.0	-12.1	-21.6	3.32	3.32	0.00
2,350.0	11.63	207.78	2,347.6	-31.3	-16.5	-29.4	3.32	3.32	0.00
2,360.4	11.97	207.78	2,357.8	-33.2	-17.5	-31.2	3.32	3.32	0.00
2,400.0	11.97	207.78	2,396.5	-40.5	-21.3	-38.0	0.00	0.00	0.00
2,450.0	11.97	207.78	2,445.4	-49.6	-26.1	-46.6	0.00	0.00	0.00
2,500.0	11.97	207.78	2,494.3	-58.8	-31.0	-55.2	0.00	0.00	0.00

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Well:	North Platte J-F-24HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-19-12)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,550.0	11.97	207.78	2,543.3	-68.0	-35.8	-63.8	0.00	0.00	0.00
2,600.0	11.97	207.78	2,592.2	-77.2	-40.7	-72.4	0.00	0.00	0.00
2,650.0	11.97	207.78	2,641.1	-86.4	-45.5	-81.1	0.00	0.00	0.00
2,700.0	11.97	207.78	2,690.0	-95.5	-50.3	-89.7	0.00	0.00	0.00
2,750.0	11.97	207.78	2,738.9	-104.7	-55.2	-98.3	0.00	0.00	0.00
2,800.0	11.97	207.78	2,787.8	-113.9	-60.0	-106.9	0.00	0.00	0.00
2,850.0	11.97	207.78	2,836.7	-123.1	-64.8	-115.5	0.00	0.00	0.00
2,900.0	11.97	207.78	2,885.6	-132.2	-69.7	-124.1	0.00	0.00	0.00
2,950.0	11.97	207.78	2,934.6	-141.4	-74.5	-132.7	0.00	0.00	0.00
3,000.0	11.97	207.78	2,983.5	-150.6	-79.3	-141.4	0.00	0.00	0.00
3,050.0	11.97	207.78	3,032.4	-159.8	-84.2	-150.0	0.00	0.00	0.00
3,100.0	11.97	207.78	3,081.3	-169.0	-89.0	-158.6	0.00	0.00	0.00
3,150.0	11.97	207.78	3,130.2	-178.1	-93.8	-167.2	0.00	0.00	0.00
3,200.0	11.97	207.78	3,179.1	-187.3	-98.7	-175.8	0.00	0.00	0.00
3,250.0	11.97	207.78	3,228.0	-196.5	-103.5	-184.4	0.00	0.00	0.00
3,300.0	11.97	207.78	3,276.9	-205.7	-108.3	-193.0	0.00	0.00	0.00
3,345.0	11.97	207.78	3,321.0	-213.9	-112.7	-200.8	0.00	0.00	0.00
PARKMAN									
3,350.0	11.97	207.78	3,325.8	-214.9	-113.2	-201.7	0.00	0.00	0.00
3,400.0	11.97	207.78	3,374.8	-224.0	-118.0	-210.3	0.00	0.00	0.00
3,450.0	11.97	207.78	3,423.7	-233.2	-122.8	-218.9	0.00	0.00	0.00
3,500.0	11.97	207.78	3,472.6	-242.4	-127.7	-227.5	0.00	0.00	0.00
3,550.0	11.97	207.78	3,521.5	-251.6	-132.5	-236.1	0.00	0.00	0.00
3,600.0	11.97	207.78	3,570.4	-260.7	-137.3	-244.7	0.00	0.00	0.00
3,650.0	11.97	207.78	3,619.3	-269.9	-142.2	-253.4	0.00	0.00	0.00
3,700.0	11.97	207.78	3,668.2	-279.1	-147.0	-262.0	0.00	0.00	0.00
3,750.0	11.97	207.78	3,717.1	-288.3	-151.8	-270.6	0.00	0.00	0.00
3,800.0	11.97	207.78	3,766.1	-297.5	-156.7	-279.2	0.00	0.00	0.00
3,850.0	11.97	207.78	3,815.0	-306.6	-161.5	-287.8	0.00	0.00	0.00
3,900.0	11.97	207.78	3,863.9	-315.8	-166.4	-296.4	0.00	0.00	0.00
3,950.0	11.97	207.78	3,912.8	-325.0	-171.2	-305.0	0.00	0.00	0.00
4,000.0	11.97	207.78	3,961.7	-334.2	-176.0	-313.7	0.00	0.00	0.00
4,050.0	11.97	207.78	4,010.6	-343.4	-180.9	-322.3	0.00	0.00	0.00
4,093.3	11.97	207.78	4,053.0	-351.3	-185.0	-329.7	0.00	0.00	0.00
SUSSEX									
4,100.0	11.97	207.78	4,059.5	-352.5	-185.7	-330.9	0.00	0.00	0.00
4,150.0	11.97	207.78	4,108.4	-361.7	-190.5	-339.5	0.00	0.00	0.00
4,200.0	11.97	207.78	4,157.4	-370.9	-195.4	-348.1	0.00	0.00	0.00
4,250.0	11.97	207.78	4,206.3	-380.1	-200.2	-356.7	0.00	0.00	0.00
4,300.0	11.97	207.78	4,255.2	-389.2	-205.0	-365.3	0.00	0.00	0.00
4,350.0	11.97	207.78	4,304.1	-398.4	-209.9	-374.0	0.00	0.00	0.00
4,400.0	11.97	207.78	4,353.0	-407.6	-214.7	-382.6	0.00	0.00	0.00
4,450.0	11.97	207.78	4,401.9	-416.8	-219.5	-391.2	0.00	0.00	0.00
4,500.0	11.97	207.78	4,450.8	-426.0	-224.4	-399.8	0.00	0.00	0.00
4,550.0	11.97	207.78	4,499.7	-435.1	-229.2	-408.4	0.00	0.00	0.00
4,600.0	11.97	207.78	4,548.6	-444.3	-234.0	-417.0	0.00	0.00	0.00
4,650.0	11.97	207.78	4,597.6	-453.5	-238.9	-425.6	0.00	0.00	0.00
4,700.0	11.97	207.78	4,646.5	-462.7	-243.7	-434.3	0.00	0.00	0.00
4,750.0	11.97	207.78	4,695.4	-471.8	-248.5	-442.9	0.00	0.00	0.00
4,800.0	11.97	207.78	4,744.3	-481.0	-253.4	-451.5	0.00	0.00	0.00
4,802.7	11.97	207.78	4,746.9	-481.5	-253.6	-452.0	0.00	0.00	0.00
4,850.0	9.75	207.78	4,793.4	-489.4	-257.8	-459.4	4.70	-4.70	0.00
4,900.0	7.40	207.78	4,842.8	-496.0	-261.3	-465.6	4.70	-4.70	0.00
4,950.0	5.05	207.78	4,892.5	-500.8	-263.8	-470.1	4.70	-4.70	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well North Platte J-F-24HZ
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Project:	SEC.24-T5N-R63W	MD Reference:	WELL @ 4580.0ft (Original Well Elev)
Site:	North Platte J-F-24HZ SEC.24-5N-63W	North Reference:	True
Well:	North Platte J-F-24HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-19-12)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.0	2.71	207.78	4,942.4	-503.8	-265.4	-472.9	4.70	-4.70	0.00
5,050.0	0.36	207.78	4,992.4	-505.0	-266.0	-474.0	4.70	-4.70	0.00
5,057.6	0.00	0.00	5,000.0	-505.0	-266.0	-474.0	4.70	-4.70	0.00
5,100.0	0.00	0.00	5,042.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,150.0	0.00	0.00	5,092.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,142.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,250.0	0.00	0.00	5,192.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,242.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,350.0	0.00	0.00	5,292.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,342.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,450.0	0.00	0.00	5,392.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,442.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,550.0	0.00	0.00	5,492.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,542.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,650.0	0.00	0.00	5,592.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,642.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,750.0	0.00	0.00	5,692.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,742.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,850.0	0.00	0.00	5,792.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,842.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
5,950.0	0.00	0.00	5,892.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,942.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
6,050.0	0.00	0.00	5,992.4	-505.0	-266.0	-474.0	0.00	0.00	0.00
6,064.2	0.00	0.00	6,006.6	-505.0	-266.0	-474.0	0.00	0.00	0.00
KOP 2									
6,064.7	0.00	0.00	6,007.1	-505.0	-266.0	-474.0	0.00	0.00	0.00
6,100.0	3.88	357.68	6,042.4	-503.8	-266.0	-472.8	11.00	11.00	0.00
6,150.0	9.38	357.68	6,092.0	-498.0	-266.3	-467.0	11.00	11.00	0.00
6,200.0	14.88	357.68	6,140.9	-487.6	-266.7	-456.6	11.00	11.00	0.00
6,212.6	16.26	357.68	6,153.0	-484.2	-266.8	-453.2	11.00	11.00	0.00
SHARON SPRINGS									
6,250.0	20.38	357.68	6,188.5	-472.4	-267.3	-441.5	11.00	11.00	0.00
6,300.0	25.88	357.68	6,234.5	-452.8	-268.1	-421.9	11.00	11.00	0.00
6,332.2	29.42	357.68	6,263.0	-437.9	-268.7	-407.0	11.00	11.00	0.00
NIOBRARA "A" CHALK									
6,348.4	31.21	357.68	6,277.0	-429.7	-269.1	-398.8	11.00	11.00	0.00
NIOBRARA "A" MARL									
6,350.0	31.38	357.68	6,278.3	-428.9	-269.1	-398.0	11.00	11.00	0.00
6,400.0	36.88	357.68	6,319.7	-400.9	-270.2	-370.0	11.00	11.00	0.00
6,422.0	39.29	357.68	6,337.0	-387.3	-270.8	-356.5	11.00	11.00	0.00
NIOBRARA "B" CHALK									
6,450.0	42.38	357.68	6,358.2	-369.0	-271.5	-338.2	11.00	11.00	0.00
6,453.8	42.80	357.68	6,361.0	-366.4	-271.6	-335.6	11.00	11.00	0.00
NIOBRARA "B" MARL									
6,500.0	47.88	357.68	6,393.5	-333.6	-272.9	-302.8	11.00	11.00	0.00
6,522.2	50.32	357.68	6,408.0	-316.9	-273.6	-286.1	11.00	11.00	0.00
NIOBRARA "C" CHALK									
6,550.0	53.38	357.68	6,425.2	-295.0	-274.5	-264.3	11.00	11.00	0.00
6,563.3	54.85	357.68	6,433.0	-284.2	-274.9	-253.5	11.00	11.00	0.00
NIOBRARA "C" MARL									
6,600.0	58.88	357.68	6,453.0	-253.5	-276.2	-222.9	11.00	11.00	0.00
6,650.0	64.38	357.68	6,476.8	-209.6	-278.0	-179.0	11.00	11.00	0.00
6,700.0	69.88	357.68	6,496.2	-163.6	-279.8	-133.0	11.00	11.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well North Platte J-F-24HZ
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4580.0ft (Original Well Elev)
Project:	SEC.24-T5N-R63W	MD Reference:	WELL @ 4580.0ft (Original Well Elev)
Site:	North Platte J-F-24HZ SEC.24-5N-63W	North Reference:	True
Well:	North Platte J-F-24HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-19-12)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,702.3	70.13	357.68	6,497.0	-161.4	-279.9	-130.9	11.00	11.00	0.00
FORT HAYS									
6,750.0	75.38	357.68	6,511.1	-115.9	-281.8	-85.4	11.00	11.00	0.00
6,800.0	80.88	357.68	6,521.4	-67.1	-283.7	-36.6	11.00	11.00	0.00
6,810.7	82.05	357.68	6,523.0	-56.5	-284.2	-26.1	11.00	11.00	0.00
CODELL									
6,850.0	86.38	357.68	6,527.0	-17.4	-285.8	12.9	11.00	11.00	0.00
6,869.0	88.47	357.68	6,527.8	1.5	-286.5	31.9	11.00	11.00	0.00
7"									
6,882.9	90.00	357.68	6,528.0	15.4	-287.1	45.8	11.00	11.00	0.00
CODELL TARGET									
6,900.0	90.00	357.68	6,528.0	32.5	-287.8	62.8	0.00	0.00	0.00
6,950.0	90.00	357.68	6,528.0	82.5	-289.8	112.7	0.00	0.00	0.00
7,000.0	90.00	357.68	6,528.0	132.4	-291.8	162.6	0.00	0.00	0.00
7,050.0	90.00	357.68	6,528.0	182.4	-293.9	212.5	0.00	0.00	0.00
7,100.0	90.00	357.68	6,528.0	232.3	-295.9	262.4	0.00	0.00	0.00
7,150.0	90.00	357.68	6,528.0	282.3	-297.9	312.3	0.00	0.00	0.00
7,200.0	90.00	357.68	6,528.0	332.3	-299.9	362.2	0.00	0.00	0.00
7,250.0	90.00	357.68	6,528.0	382.2	-301.9	412.0	0.00	0.00	0.00
7,300.0	90.00	357.68	6,528.0	432.2	-304.0	461.9	0.00	0.00	0.00
7,350.0	90.00	357.68	6,528.0	482.1	-306.0	511.8	0.00	0.00	0.00
7,400.0	90.00	357.68	6,528.0	532.1	-308.0	561.7	0.00	0.00	0.00
7,450.0	90.00	357.68	6,528.0	582.1	-310.0	611.6	0.00	0.00	0.00
7,500.0	90.00	357.68	6,528.0	632.0	-312.1	661.5	0.00	0.00	0.00
7,550.0	90.00	357.68	6,528.0	682.0	-314.1	711.4	0.00	0.00	0.00
7,600.0	90.00	357.68	6,528.0	731.9	-316.1	761.3	0.00	0.00	0.00
7,650.0	90.00	357.68	6,528.0	781.9	-318.1	811.2	0.00	0.00	0.00
7,700.0	90.00	357.68	6,528.0	831.9	-320.2	861.1	0.00	0.00	0.00
7,750.0	90.00	357.68	6,528.0	881.8	-322.2	911.0	0.00	0.00	0.00
7,800.0	90.00	357.68	6,528.0	931.8	-324.2	960.9	0.00	0.00	0.00
7,850.0	90.00	357.68	6,528.0	981.7	-326.2	1,010.8	0.00	0.00	0.00
7,900.0	90.00	357.68	6,528.0	1,031.7	-328.3	1,060.6	0.00	0.00	0.00
7,950.0	90.00	357.68	6,528.0	1,081.6	-330.3	1,110.5	0.00	0.00	0.00
8,000.0	90.00	357.68	6,528.0	1,131.6	-332.3	1,160.4	0.00	0.00	0.00
8,050.0	90.00	357.68	6,528.0	1,181.6	-334.3	1,210.3	0.00	0.00	0.00
8,100.0	90.00	357.68	6,528.0	1,231.5	-336.4	1,260.2	0.00	0.00	0.00
8,150.0	90.00	357.68	6,528.0	1,281.5	-338.4	1,310.1	0.00	0.00	0.00
8,200.0	90.00	357.68	6,528.0	1,331.4	-340.4	1,360.0	0.00	0.00	0.00
8,250.0	90.00	357.68	6,528.0	1,381.4	-342.4	1,409.9	0.00	0.00	0.00
8,300.0	90.00	357.68	6,528.0	1,431.4	-344.5	1,459.8	0.00	0.00	0.00
8,350.0	90.00	357.68	6,528.0	1,481.3	-346.5	1,509.7	0.00	0.00	0.00
8,400.0	90.00	357.68	6,528.0	1,531.3	-348.5	1,559.6	0.00	0.00	0.00
8,450.0	90.00	357.68	6,528.0	1,581.2	-350.5	1,609.5	0.00	0.00	0.00
8,500.0	90.00	357.68	6,528.0	1,631.2	-352.6	1,659.4	0.00	0.00	0.00
8,550.0	90.00	357.68	6,528.0	1,681.2	-354.6	1,709.2	0.00	0.00	0.00
8,600.0	90.00	357.68	6,528.0	1,731.1	-356.6	1,759.1	0.00	0.00	0.00
8,650.0	90.00	357.68	6,528.0	1,781.1	-358.6	1,809.0	0.00	0.00	0.00
8,700.0	90.00	357.68	6,528.0	1,831.0	-360.6	1,858.9	0.00	0.00	0.00
8,750.0	90.00	357.68	6,528.0	1,881.0	-362.7	1,908.8	0.00	0.00	0.00
8,800.0	90.00	357.68	6,528.0	1,930.9	-364.7	1,958.7	0.00	0.00	0.00
8,850.0	90.00	357.68	6,528.0	1,980.9	-366.7	2,008.6	0.00	0.00	0.00
8,900.0	90.00	357.68	6,528.0	2,030.9	-368.7	2,058.5	0.00	0.00	0.00
8,950.0	90.00	357.68	6,528.0	2,080.8	-370.8	2,108.4	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well North Platte J-F-24HZ
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4580.0ft (Original Well Elev)
Project:	SEC.24-T5N-R63W	MD Reference:	WELL @ 4580.0ft (Original Well Elev)
Site:	North Platte J-F-24HZ SEC.24-5N-63W	North Reference:	True
Well:	North Platte J-F-24HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-19-12)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,000.0	90.00	357.68	6,528.0	2,130.8	-372.8	2,158.3	0.00	0.00	0.00	
9,050.0	90.00	357.68	6,528.0	2,180.7	-374.8	2,208.2	0.00	0.00	0.00	
9,100.0	90.00	357.68	6,528.0	2,230.7	-376.8	2,258.1	0.00	0.00	0.00	
9,150.0	90.00	357.68	6,528.0	2,280.7	-378.9	2,308.0	0.00	0.00	0.00	
9,200.0	90.00	357.68	6,528.0	2,330.6	-380.9	2,357.9	0.00	0.00	0.00	
9,250.0	90.00	357.68	6,528.0	2,380.6	-382.9	2,407.7	0.00	0.00	0.00	
9,300.0	90.00	357.68	6,528.0	2,430.5	-384.9	2,457.6	0.00	0.00	0.00	
9,350.0	90.00	357.68	6,528.0	2,480.5	-387.0	2,507.5	0.00	0.00	0.00	
9,400.0	90.00	357.68	6,528.0	2,530.5	-389.0	2,557.4	0.00	0.00	0.00	
9,450.0	90.00	357.68	6,528.0	2,580.4	-391.0	2,607.3	0.00	0.00	0.00	
9,500.0	90.00	357.68	6,528.0	2,630.4	-393.0	2,657.2	0.00	0.00	0.00	
9,550.0	90.00	357.68	6,528.0	2,680.3	-395.1	2,707.1	0.00	0.00	0.00	
9,600.0	90.00	357.68	6,528.0	2,730.3	-397.1	2,757.0	0.00	0.00	0.00	
9,650.0	90.00	357.68	6,528.0	2,780.3	-399.1	2,806.9	0.00	0.00	0.00	
9,700.0	90.00	357.68	6,528.0	2,830.2	-401.1	2,856.8	0.00	0.00	0.00	
9,750.0	90.00	357.68	6,528.0	2,880.2	-403.2	2,906.7	0.00	0.00	0.00	
9,800.0	90.00	357.68	6,528.0	2,930.1	-405.2	2,956.6	0.00	0.00	0.00	
9,850.0	90.00	357.68	6,528.0	2,980.1	-407.2	3,006.5	0.00	0.00	0.00	
9,900.0	90.00	357.68	6,528.0	3,030.0	-409.2	3,056.3	0.00	0.00	0.00	
9,950.0	90.00	357.68	6,528.0	3,080.0	-411.3	3,106.2	0.00	0.00	0.00	
10,000.0	90.00	357.68	6,528.0	3,130.0	-413.3	3,156.1	0.00	0.00	0.00	
10,050.0	90.00	357.68	6,528.0	3,179.9	-415.3	3,206.0	0.00	0.00	0.00	
10,100.0	90.00	357.68	6,528.0	3,229.9	-417.3	3,255.9	0.00	0.00	0.00	
10,150.0	90.00	357.68	6,528.0	3,279.8	-419.4	3,305.8	0.00	0.00	0.00	
10,200.0	90.00	357.68	6,528.0	3,329.8	-421.4	3,355.7	0.00	0.00	0.00	
10,250.0	90.00	357.68	6,528.0	3,379.8	-423.4	3,405.6	0.00	0.00	0.00	
10,300.0	90.00	357.68	6,528.0	3,429.7	-425.4	3,455.5	0.00	0.00	0.00	
10,350.0	90.00	357.68	6,528.0	3,479.7	-427.4	3,505.4	0.00	0.00	0.00	
10,400.0	90.00	357.68	6,528.0	3,529.6	-429.5	3,555.3	0.00	0.00	0.00	
10,450.0	90.00	357.68	6,528.0	3,579.6	-431.5	3,605.2	0.00	0.00	0.00	
10,500.0	90.00	357.68	6,528.0	3,629.6	-433.5	3,655.1	0.00	0.00	0.00	
10,550.0	90.00	357.68	6,528.0	3,679.5	-435.5	3,704.9	0.00	0.00	0.00	
10,600.0	90.00	357.68	6,528.0	3,729.5	-437.6	3,754.8	0.00	0.00	0.00	
10,650.0	90.00	357.68	6,528.0	3,779.4	-439.6	3,804.7	0.00	0.00	0.00	
10,700.0	90.00	357.68	6,528.0	3,829.4	-441.6	3,854.6	0.00	0.00	0.00	
10,750.0	90.00	357.68	6,528.0	3,879.4	-443.6	3,904.5	0.00	0.00	0.00	
10,800.0	90.00	357.68	6,528.0	3,929.3	-445.7	3,954.4	0.00	0.00	0.00	
10,850.0	90.00	357.68	6,528.0	3,979.3	-447.7	4,004.3	0.00	0.00	0.00	
10,900.0	90.00	357.68	6,528.0	4,029.2	-449.7	4,054.2	0.00	0.00	0.00	
10,950.0	90.00	357.68	6,528.0	4,079.2	-451.7	4,104.1	0.00	0.00	0.00	
11,000.0	90.00	357.68	6,528.0	4,129.1	-453.8	4,154.0	0.00	0.00	0.00	
11,050.0	90.00	357.68	6,528.0	4,179.1	-455.8	4,203.9	0.00	0.00	0.00	
11,100.0	90.00	357.68	6,528.0	4,229.1	-457.8	4,253.8	0.00	0.00	0.00	
11,150.0	90.00	357.68	6,528.0	4,279.0	-459.8	4,303.7	0.00	0.00	0.00	
11,200.0	90.00	357.68	6,528.0	4,329.0	-461.9	4,353.5	0.00	0.00	0.00	
11,213.6	90.00	357.68	6,528.0	4,342.6	-462.4	4,367.2	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well North Platte J-F-24HZ
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4580.0ft (Original Well Elev)
Project:	SEC.24-T5N-R63W	MD Reference:	WELL @ 4580.0ft (Original Well Elev)
Site:	North Platte J-F-24HZ SEC.24-5N-63W	North Reference:	True
Well:	North Platte J-F-24HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-19-12)		

Targets									
Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
- Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude Longitude
T1 460'FNL, 1000'FW		0.00	0.00	6,528.0	-25.5	-287.0	1,382,725.08	3,309,207.83	40.378670 -104.390100
- plan misses target center by 2.2ft at 6842.1ft MD (6526.4 TVD, -25.3 N, -285.4 E)									
- Point									
BHL 460'FSL & 1000'I		0.00	0.00	6,528.0	4,342.6	-462.4	1,387,090.45	3,308,977.69	40.390660 -104.390730
- plan hits target center									
- Point									
HARDLINE BHL 460'f		0.00	0.00	1.0	4,342.6	-962.4	1,387,084.19	3,308,477.76	40.390660 -104.392525
- plan misses target center by 4448.0ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1				1.0	0.0	0.0	1,387,084.19	3,308,477.76	
Point 2				1.0	0.0	1,000.0	1,387,096.72	3,309,477.64	
HARDLINE SHL 460'f		0.00	0.00	1.0	-25.0	-500.0	1,382,722.91	3,308,994.82	40.378671 -104.390865
- plan misses target center by 500.6ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1				1.0	0.0	0.0	1,382,722.91	3,308,994.82	
Point 2				1.0	0.0	1,000.0	1,382,735.44	3,309,994.70	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
500.0	500.0	9 5/8"	9-5/8	12-1/4	
6,869.0	6,527.8	7"	7	8-3/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,345.0	3,321.0	PARKMAN		0.00		
4,093.3	4,053.0	SUSSEX		0.00		
6,212.6	6,153.0	SHARON SPRINGS		0.00		
6,332.2	6,263.0	NIOBRARA "A" CHALK		0.00		
6,348.4	6,277.0	NIOBRARA "A" MARL		0.00		
6,422.0	6,337.0	NIOBRARA "B" CHALK		0.00		
6,453.8	6,361.0	NIOBRARA "B" MARL		0.00		
6,522.2	6,408.0	NIOBRARA "C" CHALK		0.00		
6,563.3	6,433.0	NIOBRARA "C" MARL		0.00		
6,702.3	6,497.0	FORT HAYS		0.00		
6,810.7	6,523.0	CODELL		0.00		
6,882.9	6,528.0	CODELL TARGET		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
2,000.0	2,000.0	0.0	0.0	KOP 1	
6,064.2	6,006.6	-505.0	-266.0	KOP 2	



Directional

BONANZA CREEK ENERGY OPERATING

SEC.24-T5N-R63W

North Platte J-F-24HZ SEC.24-5N-63W

North Platte J-F-24HZ

Wellbore #1

Plan #2 (6-19-12)

Anticollision Report

22 June, 2012

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte J-F-24HZ
Project:	SEC.24-T5N-R63W	TVD Reference:	WELL @ 4580.0ft (Original Well Elev)
Reference Site:	North Platte J-F-24HZ SEC.24-5N-63W	MD Reference:	WELL @ 4580.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte J-F-24HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (6-19-12)	Offset TVD Reference:	Offset Datum

Reference	Plan #2 (6-19-12)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 6/22/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,213.6	Plan #2 (6-19-12) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
NORTH PLATTE 24-21-24HZ Pad SEC.24-T5N-R63W						
NORTH PLATTE 24-21-24HZ - Wellbore #1 - Plan #2 - S	0.0	1.0	21.9	21.9	10,000.000	CC
NORTH PLATTE 24-21-24HZ - Wellbore #1 - Plan #2 - S	800.0	801.0	23.6	20.7	8.299	ES
NORTH PLATTE 24-21-24HZ - Wellbore #1 - Plan #2 - S	1,000.0	1,000.0	27.8	24.1	7.483	SF
NORTH PLATTE 24-21-24HZ - Wellbore #1 - Wellbore #	0.0	4.0	21.9	21.9	10,000.000	CC
NORTH PLATTE 24-21-24HZ - Wellbore #1 - Wellbore #	800.0	804.0	23.6	20.7	8.299	ES
NORTH PLATTE 24-21-24HZ - Wellbore #1 - Wellbore #	1,000.0	1,003.0	27.8	24.1	7.483	SF

Offset Design	NORTH PLATTE 24-21-24HZ Pad SEC.24-T5N-R63W - NORTH PLATTE 24-21-24HZ - Wellbore #1 - F												Offset Site Error:	0.0 ft
Survey Program:	508-MWD, 5826-MWD												Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	180.00	-21.9	0.0	21.9	21.9	0.00	N/A	CC	
100.0	100.0	101.0	101.0	0.1	0.1	179.92	-21.9	0.0	21.9	21.7	0.23	96.927		
200.0	200.0	201.0	201.0	0.3	0.2	179.67	-22.0	0.1	22.0	21.5	0.56	39.127		
300.0	300.0	300.9	300.9	0.6	0.3	179.28	-22.2	0.3	22.2	21.3	0.90	24.707		
400.0	400.0	400.9	400.9	0.8	0.5	178.73	-22.5	0.5	22.5	21.3	1.24	18.212		
500.0	500.0	500.9	500.9	1.0	0.6	178.05	-22.9	0.8	22.9	21.3	1.57	14.553		
600.0	600.0	600.9	600.9	1.2	0.8	177.56	-23.4	1.0	23.4	21.4	2.00	11.683		
700.0	700.0	701.0	701.0	1.5	1.0	177.65	-23.7	1.0	23.7	21.3	2.42	9.787		
799.3	799.3	800.3	800.3	1.7	1.2	178.10	-23.5	0.8	23.6	20.7	2.84	8.308		
800.0	800.0	801.0	801.0	1.7	1.2	178.10	-23.5	0.8	23.6	20.7	2.84	8.299	ES	
900.0	900.0	900.4	900.4	1.9	1.4	178.29	-24.9	0.7	24.9	21.6	3.27	7.609		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	1.6	178.54	-27.8	0.7	27.8	24.1	3.72	7.483	SF	
1,100.0	1,100.0	1,099.2	1,099.0	2.4	1.8	178.97	-32.6	0.6	32.6	28.5	4.16	7.841		
1,200.0	1,200.0	1,198.3	1,197.9	2.6	2.0	178.46	-39.5	1.1	39.6	35.0	4.61	8.596		
1,300.0	1,300.0	1,297.7	1,296.9	2.8	2.3	175.52	-47.6	3.7	47.9	42.9	5.06	9.473		
1,400.0	1,400.0	1,397.2	1,395.9	3.0	2.5	170.82	-55.7	9.0	56.6	51.1	5.50	10.291		
1,500.0	1,500.0	1,496.2	1,494.3	3.3	2.8	165.04	-63.5	17.0	66.1	60.1	5.95	11.103		
1,600.0	1,600.0	1,594.5	1,591.9	3.5	3.0	160.81	-72.2	25.1	76.9	70.5	6.40	12.022		
1,700.0	1,700.0	1,692.3	1,688.7	3.7	3.3	157.13	-81.9	34.5	89.7	82.9	6.86	13.084		
1,800.0	1,800.0	1,790.7	1,786.0	3.9	3.6	154.03	-92.5	45.0	104.0	96.7	7.32	14.205		
1,900.0	1,900.0	1,889.1	1,883.2	4.2	3.9	151.86	-103.5	55.3	118.7	110.9	7.78	15.251		

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

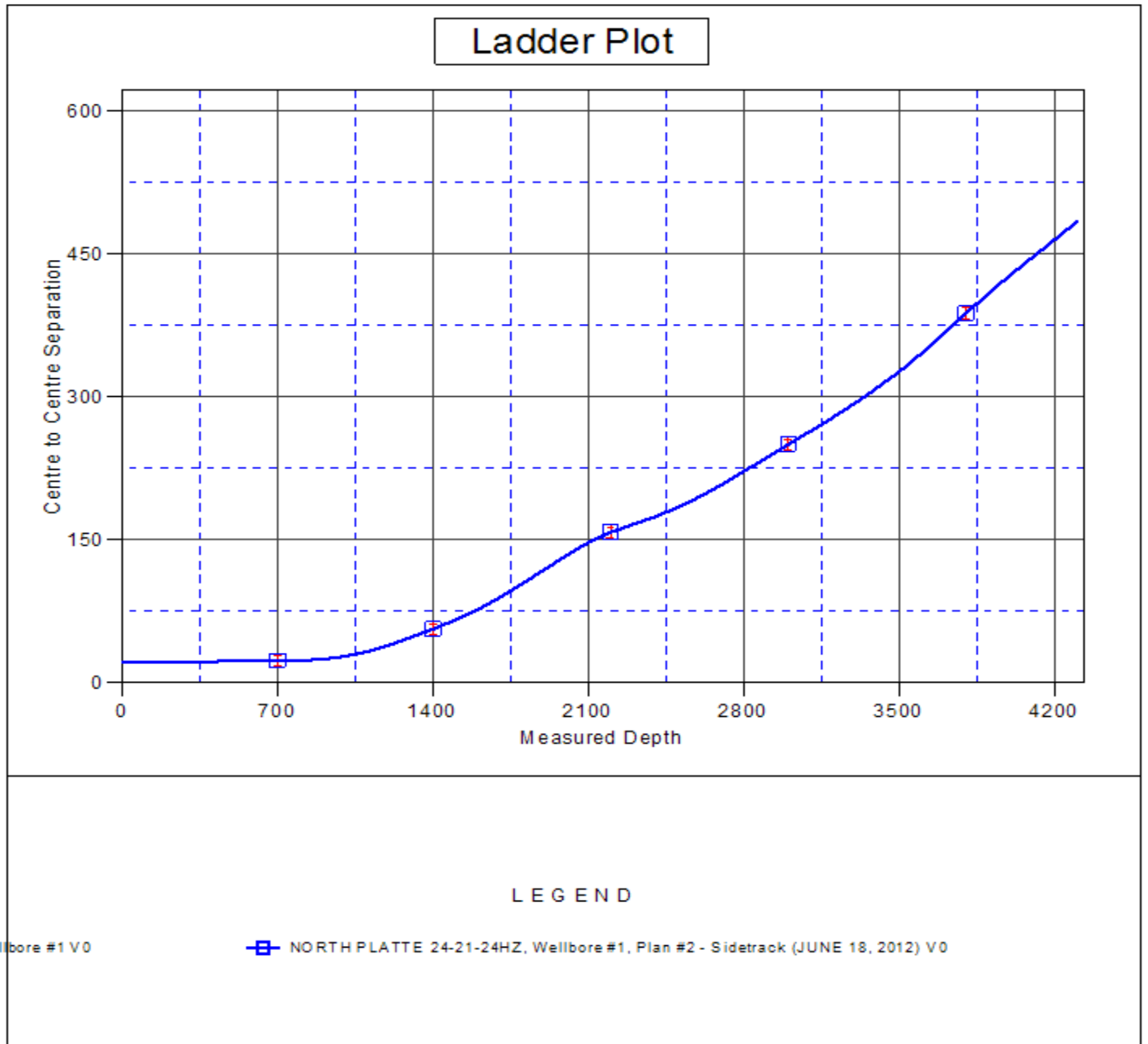
Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte J-F-24HZ
Project:	SEC.24-T5N-R63W	TVD Reference:	WELL @ 4580.0ft (Original Well Elev)
Reference Site:	North Platte J-F-24HZ SEC.24-5N-63W	MD Reference:	WELL @ 4580.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte J-F-24HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (6-19-12)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 508-MWD, 5826-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
2,000.0	2,000.0	1,987.5	1,980.4	4.4	4.2	150.26	-114.9	65.6	133.9	125.6	8.25	16.234	
2,100.0	2,099.9	2,087.2	2,078.9	4.6	4.6	-59.08	-126.8	75.3	147.6	139.0	8.59	17.194	
2,200.0	2,199.6	2,186.9	2,177.5	4.8	4.8	-62.24	-138.2	84.7	158.2	149.2	8.97	17.626	
2,300.0	2,298.5	2,285.8	2,275.4	5.0	5.1	-66.90	-149.0	94.2	166.6	157.2	9.40	17.720	
2,400.0	2,396.5	2,383.5	2,372.1	5.3	5.4	-72.52	-160.2	103.0	174.5	164.5	9.93	17.574	
2,500.0	2,494.3	2,480.6	2,468.0	5.6	5.8	-77.76	-172.2	111.5	184.2	173.6	10.56	17.440	
2,600.0	2,592.2	2,578.7	2,564.9	6.1	6.1	-82.35	-184.9	120.0	195.5	184.2	11.27	17.348	
2,700.0	2,690.0	2,675.5	2,660.4	6.5	6.4	-86.08	-198.5	128.2	208.3	196.3	12.03	17.314	
2,800.0	2,787.8	2,773.9	2,757.4	7.0	6.8	-89.35	-212.8	136.7	222.4	209.5	12.84	17.316	
2,900.0	2,885.6	2,874.7	2,856.9	7.5	7.1	-92.50	-226.3	144.9	236.1	222.5	13.67	17.270	
3,000.0	2,983.5	2,973.1	2,954.2	8.1	7.4	-95.53	-238.3	153.3	250.4	235.9	14.51	17.259	
3,100.0	3,081.3	3,074.0	3,054.3	8.7	7.7	-98.65	-248.7	161.6	264.5	249.1	15.36	17.219	
3,200.0	3,179.1	3,172.2	3,151.8	9.3	8.0	-101.61	-257.7	169.5	278.7	262.5	16.20	17.205	
3,300.0	3,276.9	3,268.9	3,247.7	9.9	8.3	-104.33	-266.1	177.6	293.8	276.8	17.03	17.250	
3,400.0	3,374.8	3,365.7	3,343.8	10.5	8.6	-106.75	-274.8	186.2	310.0	292.2	17.87	17.345	
3,500.0	3,472.6	3,460.0	3,437.2	11.1	8.9	-108.62	-284.7	194.7	327.1	308.4	18.72	17.476	
3,600.0	3,570.4	3,552.2	3,528.1	11.7	9.2	-109.95	-296.5	204.2	346.2	326.6	19.58	17.679	
3,700.0	3,668.2	3,645.6	3,619.8	12.3	9.6	-110.87	-310.5	215.1	366.8	346.3	20.47	17.916	
3,800.0	3,766.1	3,743.3	3,715.5	13.0	10.0	-111.50	-326.5	227.0	388.2	366.8	21.39	18.150	
3,900.0	3,863.9	3,845.1	3,815.2	13.6	10.4	-112.09	-343.2	238.6	408.9	386.6	22.31	18.331	
4,000.0	3,961.7	3,949.3	3,917.6	14.3	10.7	-112.79	-359.1	249.4	428.5	405.3	23.21	18.460	
4,100.0	4,059.5	4,049.2	4,016.2	14.9	11.1	-113.72	-371.8	258.7	447.0	423.0	24.08	18.565	
4,200.0	4,157.4	4,146.5	4,112.5	15.6	11.4	-114.75	-382.7	267.9	465.7	440.8	24.92	18.687	
4,300.0	4,255.2	4,246.7	4,211.6	16.2	11.7	-115.77	-393.5	277.3	484.4	458.6	25.76	18.800	

NORTH PLATTE 24-21-24HZ Pad SEC.24-T5N-R63W - NORTH PLATTE 24-21-24HZ - Wellbore #1 - V													Offset Site Error:	0.0 ft
Survey Program: 511-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	4.0	4.0	0.0	0.0	180.00	-21.9	0.0	21.9	21.9	0.00	N/A	CC	
100.0	100.0	104.0	104.0	0.1	0.1	179.92	-21.9	0.0	21.9	21.7	0.23	96.927		
200.0	200.0	204.0	204.0	0.3	0.2	179.67	-22.0	0.1	22.0	21.5	0.56	39.127		
300.0	300.0	303.9	303.9	0.6	0.3	179.28	-22.2	0.3	22.2	21.3	0.90	24.707		
400.0	400.0	403.9	403.9	0.8	0.5	178.73	-22.5	0.5	22.5	21.3	1.24	18.212		
500.0	500.0	503.9	503.9	1.0	0.6	178.05	-22.9	0.8	22.9	21.3	1.57	14.553		
600.0	600.0	603.9	603.9	1.2	0.8	177.56	-23.4	1.0	23.4	21.4	2.00	11.683		
700.0	700.0	704.0	704.0	1.5	1.0	177.65	-23.7	1.0	23.7	21.3	2.42	9.787		
799.3	799.3	803.3	803.3	1.7	1.2	178.10	-23.5	0.8	23.6	20.7	2.84	8.308		
800.0	800.0	804.0	804.0	1.7	1.2	178.10	-23.5	0.8	23.6	20.7	2.84	8.299	ES	
900.0	900.0	903.4	903.4	1.9	1.4	178.29	-24.9	0.7	24.9	21.6	3.27	7.609		
1,000.0	1,000.0	1,003.0	1,003.0	2.1	1.6	178.54	-27.8	0.7	27.8	24.1	3.72	7.483	SF	
1,100.0	1,100.0	1,102.2	1,102.0	2.4	1.8	178.97	-32.6	0.6	32.6	28.5	4.16	7.841		
1,200.0	1,200.0	1,201.3	1,200.9	2.6	2.0	178.46	-39.5	1.1	39.6	35.0	4.61	8.596		
1,300.0	1,300.0	1,300.7	1,299.9	2.8	2.3	175.52	-47.6	3.7	47.9	42.9	5.06	9.473		
1,400.0	1,400.0	1,400.2	1,398.9	3.0	2.5	170.82	-55.7	9.0	56.6	51.1	5.50	10.291		
1,500.0	1,500.0	1,499.2	1,497.3	3.3	2.8	165.04	-63.5	17.0	66.1	60.1	5.95	11.103		
1,600.0	1,600.0	1,597.5	1,594.9	3.5	3.0	160.81	-72.2	25.1	76.9	70.5	6.40	12.022		
1,700.0	1,700.0	1,695.3	1,691.7	3.7	3.3	157.13	-81.9	34.5	89.7	82.9	6.86	13.084		
1,800.0	1,800.0	1,793.7	1,789.0	3.9	3.6	154.03	-92.5	45.0	104.0	96.7	7.32	14.205		
1,900.0	1,900.0	1,892.1	1,886.2	4.2	3.9	151.86	-103.5	55.3	118.7	110.9	7.78	15.251		
2,000.0	2,000.0	1,990.5	1,983.4	4.4	4.2	150.26	-114.9	65.6	133.9	125.6	8.25	16.234		
2,100.0	2,099.9	2,090.2	2,081.9	4.6	4.6	-59.08	-126.8	75.3	147.6	139.0	8.59	17.194		
2,200.0	2,199.6	2,189.9	2,180.5	4.8	4.8	-62.24	-138.2	84.7	158.2	149.2	8.97	17.626		
2,300.0	2,298.5	2,288.8	2,278.4	5.0	5.1	-66.90	-149.0	94.2	166.6	157.2	9.40	17.720		
2,400.0	2,396.5	2,386.5	2,375.1	5.3	5.4	-72.52	-160.2	103.0	174.5	164.5	9.93	17.574		
2,500.0	2,494.3	2,483.6	2,471.0	5.6	5.8	-77.76	-172.2	111.5	184.2	173.6	10.56	17.440		
2,600.0	2,592.2	2,581.7	2,567.9	6.1	6.1	-82.35	-184.9	120.0	195.5	184.2	11.27	17.348		
2,700.0	2,690.0	2,678.5	2,663.4	6.5	6.4	-86.08	-198.5	128.2	208.3	196.3	12.03	17.314		
2,800.0	2,787.8	2,776.9	2,760.4	7.0	6.8	-89.35	-212.8	136.7	222.4	209.5	12.84	17.316		
2,900.0	2,885.6	2,877.7	2,859.9	7.5	7.1	-92.50	-226.3	144.9	236.1	222.5	13.67	17.270		
3,000.0	2,983.5	2,976.1	2,957.2	8.1	7.4	-95.53	-238.3	153.3	250.4	235.9	14.51	17.259		
3,100.0	3,081.3	3,077.0	3,057.3	8.7	7.7	-98.65	-248.7	161.6	264.5	249.1	15.36	17.219		
3,200.0	3,179.1	3,175.2	3,154.8	9.3	8.0	-101.61	-257.7	169.5	278.7	262.5	16.20	17.205		
3,300.0	3,276.9	3,271.9	3,250.7	9.9	8.3	-104.33	-266.1	177.6	293.8	276.8	17.03	17.250		
3,400.0	3,374.8	3,368.7	3,346.8	10.5	8.6	-106.75	-274.8	186.2	310.0	292.2	17.87	17.345		
3,500.0	3,472.6	3,463.0	3,440.2	11.1	8.9	-108.62	-284.7	194.7	327.1	308.4	18.72	17.476		
3,600.0	3,570.4	3,555.2	3,531.1	11.7	9.2	-109.95	-296.5	204.2	346.2	326.6	19.58	17.679		
3,700.0	3,668.2	3,648.6	3,622.8	12.3	9.6	-110.87	-310.5	215.1	366.8	346.3	20.47	17.916		
3,800.0	3,766.1	3,746.3	3,718.5	13.0	10.0	-111.50	-326.5	227.0	388.2	366.8	21.39	18.150		
3,900.0	3,863.9	3,848.1	3,818.2	13.6	10.4	-112.09	-343.2	238.6	408.9	386.6	22.31	18.331		
4,000.0	3,961.7	3,952.3	3,920.6	14.3	10.7	-112.79	-359.1	249.4	428.5	405.3	23.21	18.460		
4,100.0	4,059.5	4,052.2	4,019.2	14.9	11.1	-113.72	-371.8	258.7	447.0	423.0	24.08	18.565		
4,200.0	4,157.4	4,149.5	4,115.5	15.6	11.4	-114.75	-382.7	267.9	465.7	440.8	24.92	18.687		
4,300.0	4,255.2	4,249.7	4,214.6	16.2	11.7	-115.77	-393.5	277.3	484.4	458.6	25.76	18.800		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte J-F-24HZ
Project:	SEC.24-T5N-R63W	TVD Reference:	WELL @ 4580.0ft (Original Well Elev)
Reference Site:	North Platte J-F-24HZ SEC.24-5N-63W	MD Reference:	WELL @ 4580.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte J-F-24HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (6-19-12)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4580.0ft (Original Well Elev) Coordinates are relative to: North Platte J-F-24HZ
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.72°



Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte J-F-24HZ
Project:	SEC.24-T5N-R63W	TVD Reference:	WELL @ 4580.0ft (Original Well Elev)
Reference Site:	North Platte J-F-24HZ SEC.24-5N-63W	MD Reference:	WELL @ 4580.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte J-F-24HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (6-19-12)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4580.0ft (Original Well Elev) Coordinates are relative to: North Platte J-F-24HZ
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.72°

