

BONANZA CREEK ENERGY OPERATING

Well Name: **State North Platte F-J-26HNB**

Surface Location: State North Platte F-26 Pad Sec.26-T5N-R63W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

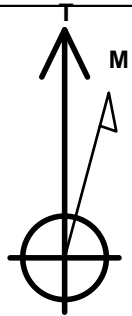
Ground Elevation: 4565.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1381734.46	3303951.33	40.376130	-104.409010	

RKB - 13' WELL @ 4578.0ft (RKB - 13')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
BHL 470'FSL & 1290'FWL	6348.0	-4255.1	275.9	Point
CASING POINT 731'FNL & 1290'FWL	6348.0	-238.4	331.6	Point



Azimuths to True North
Magnetic North: 8.44°

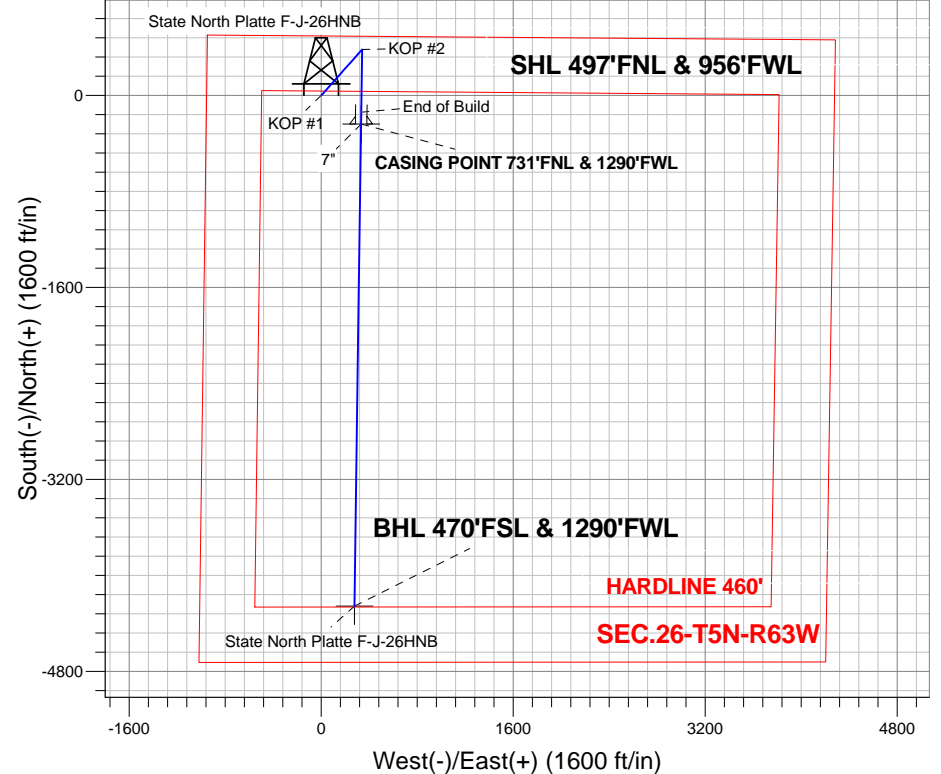
Magnetic Field
Strength: 52980.2srT
Dip Angle: 67.03°
Date: 2/22/2013
Model: IGRF2010

State North Platte F-26 Pad Sec.26-T5N-R63W
State North Platte F-J-26HNB
Plan #1 (2-22-13)
14:38, February 27 2013

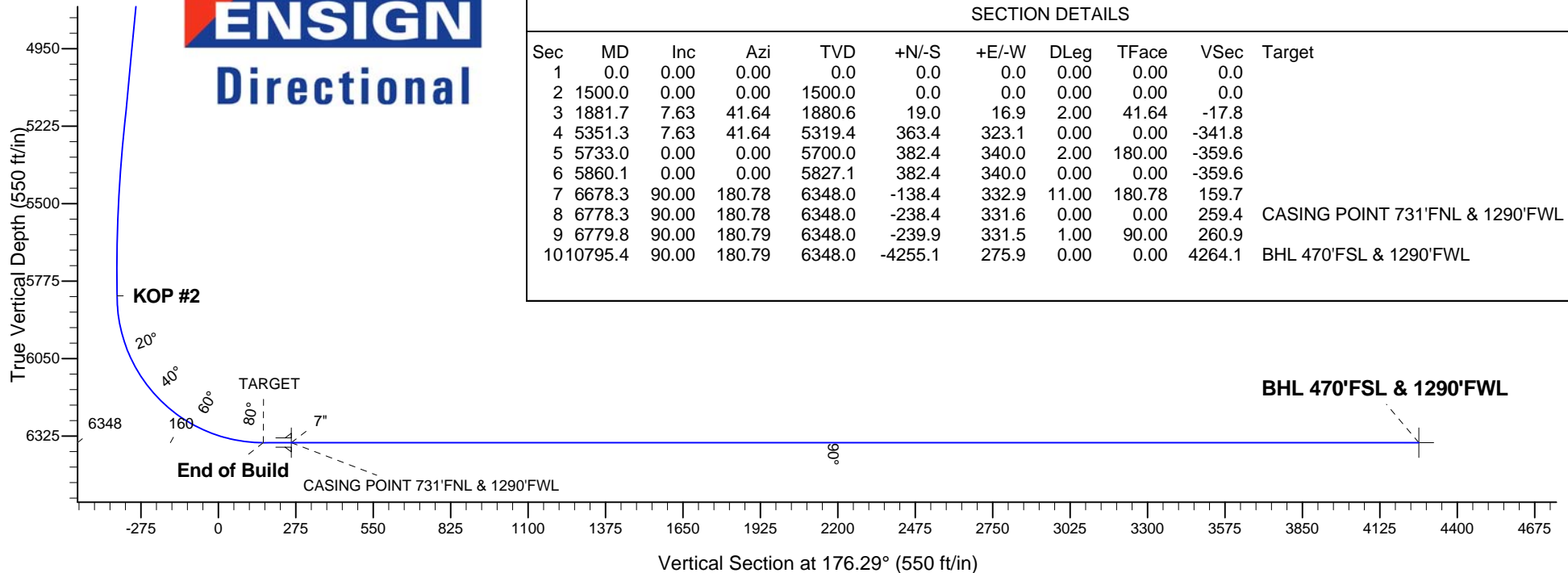
ANNOTATIONS

TVD	MD	Annotation
1500.0	1500.0	KOP #1
5827.1	5860.1	KOP #2
6348.0	6678.3	End of Build

South(-)/North(+) (1600 ft/in)



ENSIGN
Directional



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	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1881.7	7.63	41.64	1880.6	19.0	16.9	2.00	41.64	-17.8	
4	5351.3	7.63	41.64	5319.4	363.4	323.1	0.00	0.00	-341.8	
5	5733.0	0.00	0.00	5700.0	382.4	340.0	2.00	180.00	-359.6	
6	5860.1	0.00	0.00	5827.1	382.4	340.0	0.00	0.00	-359.6	
7	6678.3	90.00	180.78	6348.0	-138.4	332.9	11.00	180.78	159.7	
8	6778.3	90.00	180.78	6348.0	-238.4	331.6	0.00	0.00	259.4	CASING POINT 731'FNL & 1290'FWL
9	6779.8	90.00	180.79	6348.0	-239.9	331.5	1.00	90.00	260.9	
10	10795.4	90.00	180.79	6348.0	-4255.1	275.9	0.00	0.00	4264.1	BHL 470'FSL & 1290'FWL



BONANZA CREEK ENERGY OPERATING

SEC.26-T5N-R63W

State North Platte F-26 Pad Sec.26-T5N-R63W

State North Platte F-J-26HNB

Wellbore #1

Plan: Plan #1 (2-22-13)

Standard Planning Report

27 February, 2013

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,881.7	7.63	41.64	1,880.6	19.0	16.9	2.00	2.00	0.00	41.64	
5,351.3	7.63	41.64	5,319.4	363.4	323.1	0.00	0.00	0.00	0.00	
5,733.0	0.00	0.00	5,700.0	382.4	340.0	2.00	-2.00	0.00	180.00	
5,860.1	0.00	0.00	5,827.1	382.4	340.0	0.00	0.00	0.00	0.00	
6,678.3	90.00	180.78	6,348.0	-138.4	332.9	11.00	11.00	0.00	180.78	
6,778.3	90.00	180.78	6,348.0	-238.4	331.6	0.00	0.00	0.00	0.00	CASING POINT 73
6,779.8	90.00	180.79	6,348.0	-239.9	331.5	1.00	0.00	1.00	90.00	
10,795.4	90.00	180.79	6,348.0	-4,255.1	275.9	0.00	0.00	0.00	0.00	BHL 470'FSL & 129

Database:	Landmark	Local Co-ordinate Reference:	Well State North Platte F-J-26HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4578.0ft (RKB - 13')
Project:	SEC.26-T5N-R63W	MD Reference:	WELL @ 4578.0ft (RKB - 13')
Site:	State North Platte F-26 Pad Sec.26-T5N-R63W	North Reference:	True
Well:	State North Platte F-J-26HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-22-13)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
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
1,100.0	0.00	0.00	1,100.0	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
1,300.0	0.00	0.00	1,300.0	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
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP #1									
1,600.0	2.00	41.64	1,600.0	1.3	1.2	-1.2	2.00	2.00	0.00
1,700.0	4.00	41.64	1,699.8	5.2	4.6	-4.9	2.00	2.00	0.00
1,800.0	6.00	41.64	1,799.5	11.7	10.4	-11.0	2.00	2.00	0.00
1,881.7	7.63	41.64	1,880.6	19.0	16.9	-17.8	2.00	2.00	0.00
1,900.0	7.63	41.64	1,898.7	20.8	18.5	-19.6	0.00	0.00	0.00
2,000.0	7.63	41.64	1,997.8	30.7	27.3	-28.9	0.00	0.00	0.00
2,100.0	7.63	41.64	2,096.9	40.6	36.1	-38.2	0.00	0.00	0.00
2,200.0	7.63	41.64	2,196.1	50.6	45.0	-47.6	0.00	0.00	0.00
2,300.0	7.63	41.64	2,295.2	60.5	53.8	-56.9	0.00	0.00	0.00
2,400.0	7.63	41.64	2,394.3	70.4	62.6	-66.2	0.00	0.00	0.00
2,500.0	7.63	41.64	2,493.4	80.4	71.4	-75.6	0.00	0.00	0.00
2,600.0	7.63	41.64	2,592.5	90.3	80.3	-84.9	0.00	0.00	0.00
2,700.0	7.63	41.64	2,691.6	100.2	89.1	-94.2	0.00	0.00	0.00
2,800.0	7.63	41.64	2,790.7	110.1	97.9	-103.6	0.00	0.00	0.00
2,900.0	7.63	41.64	2,889.8	120.1	106.8	-112.9	0.00	0.00	0.00
3,000.0	7.63	41.64	2,989.0	130.0	115.6	-122.2	0.00	0.00	0.00
3,100.0	7.63	41.64	3,088.1	139.9	124.4	-131.6	0.00	0.00	0.00
3,200.0	7.63	41.64	3,187.2	149.9	133.2	-140.9	0.00	0.00	0.00
3,300.0	7.63	41.64	3,286.3	159.8	142.1	-150.3	0.00	0.00	0.00
3,400.0	7.63	41.64	3,385.4	169.7	150.9	-159.6	0.00	0.00	0.00
3,500.0	7.63	41.64	3,484.5	179.6	159.7	-168.9	0.00	0.00	0.00
3,600.0	7.63	41.64	3,583.6	189.6	168.5	-178.3	0.00	0.00	0.00
3,700.0	7.63	41.64	3,682.8	199.5	177.4	-187.6	0.00	0.00	0.00
3,800.0	7.63	41.64	3,781.9	209.4	186.2	-196.9	0.00	0.00	0.00
3,900.0	7.63	41.64	3,881.0	219.3	195.0	-206.3	0.00	0.00	0.00
4,000.0	7.63	41.64	3,980.1	229.3	203.9	-215.6	0.00	0.00	0.00
4,100.0	7.63	41.64	4,079.2	239.2	212.7	-224.9	0.00	0.00	0.00
4,200.0	7.63	41.64	4,178.3	249.1	221.5	-234.3	0.00	0.00	0.00
4,300.0	7.63	41.64	4,277.4	259.1	230.3	-243.6	0.00	0.00	0.00
4,400.0	7.63	41.64	4,376.6	269.0	239.2	-252.9	0.00	0.00	0.00
4,500.0	7.63	41.64	4,475.7	278.9	248.0	-262.3	0.00	0.00	0.00
4,600.0	7.63	41.64	4,574.8	288.8	256.8	-271.6	0.00	0.00	0.00
4,700.0	7.63	41.64	4,673.9	298.8	265.6	-281.0	0.00	0.00	0.00
4,800.0	7.63	41.64	4,773.0	308.7	274.5	-290.3	0.00	0.00	0.00
4,900.0	7.63	41.64	4,872.1	318.6	283.3	-299.6	0.00	0.00	0.00
5,000.0	7.63	41.64	4,971.2	328.5	292.1	-309.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well State North Platte F-J-26HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4578.0ft (RKB - 13')
Project:	SEC.26-T5N-R63W	MD Reference:	WELL @ 4578.0ft (RKB - 13')
Site:	State North Platte F-26 Pad Sec.26-T5N-R63W	North Reference:	True
Well:	State North Platte F-J-26HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-22-13)		

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)
5,100.0	7.63	41.64	5,070.3	338.5	300.9	-318.3	0.00	0.00	0.00
5,200.0	7.63	41.64	5,169.5	348.4	309.8	-327.6	0.00	0.00	0.00
5,300.0	7.63	41.64	5,268.6	358.3	318.6	-337.0	0.00	0.00	0.00
5,351.3	7.63	41.64	5,319.4	363.4	323.1	-341.8	0.00	0.00	0.00
5,400.0	6.66	41.64	5,367.7	368.0	327.2	-346.0	2.00	-2.00	0.00
5,500.0	4.66	41.64	5,467.2	375.3	333.7	-352.9	2.00	-2.00	0.00
5,600.0	2.66	41.64	5,567.0	380.1	337.9	-357.4	2.00	-2.00	0.00
5,700.0	0.66	41.64	5,667.0	382.3	339.9	-359.5	2.00	-2.00	0.00
5,733.0	0.00	0.00	5,700.0	382.4	340.0	-359.6	2.00	-2.00	0.00
5,800.0	0.00	0.00	5,767.0	382.4	340.0	-359.6	0.00	0.00	0.00
5,860.1	0.00	0.00	5,827.1	382.4	340.0	-359.6	0.00	0.00	0.00
KOP #2									
5,900.0	4.39	180.78	5,867.0	380.9	340.0	-358.1	10.99	10.99	0.00
6,000.0	15.39	180.78	5,965.3	363.7	339.7	-341.0	11.00	11.00	0.00
6,100.0	26.39	180.78	6,058.6	328.1	339.3	-305.5	11.00	11.00	0.00
6,200.0	37.39	180.78	6,143.4	275.4	338.5	-252.9	11.00	11.00	0.00
6,300.0	48.38	180.78	6,216.5	207.5	337.6	-185.2	11.00	11.00	0.00
6,400.0	59.38	180.78	6,275.4	126.8	336.5	-104.8	11.00	11.00	0.00
6,500.0	70.38	180.78	6,317.8	36.4	335.3	-14.6	11.00	11.00	0.00
6,600.0	81.38	180.78	6,342.1	-60.4	334.0	81.9	11.00	11.00	0.00
6,678.3	90.00	180.78	6,348.0	-138.4	332.9	159.7	11.00	11.00	0.00
End of Build - TARGET									
6,700.0	90.00	180.78	6,348.0	-160.1	332.6	181.3	0.00	0.00	0.00
6,778.3	90.00	180.78	6,348.0	-238.4	331.6	259.3	0.00	0.00	0.00
7"									
6,779.8	90.00	180.79	6,348.0	-239.9	331.5	260.9	1.00	0.00	1.00
6,800.0	90.00	180.79	6,348.0	-260.1	331.3	281.0	0.00	0.00	0.00
6,900.0	90.00	180.79	6,348.0	-360.1	329.9	380.7	0.00	0.00	0.00
7,000.0	90.00	180.79	6,348.0	-460.1	328.5	480.4	0.00	0.00	0.00
7,100.0	90.00	180.79	6,348.0	-560.1	327.1	580.1	0.00	0.00	0.00
7,200.0	90.00	180.79	6,348.0	-660.1	325.7	679.7	0.00	0.00	0.00
7,300.0	90.00	180.79	6,348.0	-760.0	324.3	779.4	0.00	0.00	0.00
7,400.0	90.00	180.79	6,348.0	-860.0	322.9	879.1	0.00	0.00	0.00
7,500.0	90.00	180.79	6,348.0	-960.0	321.6	978.8	0.00	0.00	0.00
7,600.0	90.00	180.79	6,348.0	-1,060.0	320.2	1,078.5	0.00	0.00	0.00
7,700.0	90.00	180.79	6,348.0	-1,160.0	318.8	1,178.2	0.00	0.00	0.00
7,800.0	90.00	180.79	6,348.0	-1,260.0	317.4	1,277.9	0.00	0.00	0.00
7,900.0	90.00	180.79	6,348.0	-1,360.0	316.0	1,377.6	0.00	0.00	0.00
8,000.0	90.00	180.79	6,348.0	-1,460.0	314.6	1,477.3	0.00	0.00	0.00
8,100.0	90.00	180.79	6,348.0	-1,560.0	313.2	1,577.0	0.00	0.00	0.00
8,200.0	90.00	180.79	6,348.0	-1,660.0	311.9	1,676.7	0.00	0.00	0.00
8,300.0	90.00	180.79	6,348.0	-1,759.9	310.5	1,776.3	0.00	0.00	0.00
8,400.0	90.00	180.79	6,348.0	-1,859.9	309.1	1,876.0	0.00	0.00	0.00
8,500.0	90.00	180.79	6,348.0	-1,959.9	307.7	1,975.7	0.00	0.00	0.00
8,600.0	90.00	180.79	6,348.0	-2,059.9	306.3	2,075.4	0.00	0.00	0.00
8,700.0	90.00	180.79	6,348.0	-2,159.9	304.9	2,175.1	0.00	0.00	0.00
8,800.0	90.00	180.79	6,348.0	-2,259.9	303.5	2,274.8	0.00	0.00	0.00
8,900.0	90.00	180.79	6,348.0	-2,359.9	302.2	2,374.5	0.00	0.00	0.00
9,000.0	90.00	180.79	6,348.0	-2,459.9	300.8	2,474.2	0.00	0.00	0.00
9,100.0	90.00	180.79	6,348.0	-2,559.9	299.4	2,573.9	0.00	0.00	0.00
9,200.0	90.00	180.79	6,348.0	-2,659.9	298.0	2,673.6	0.00	0.00	0.00
9,300.0	90.00	180.79	6,348.0	-2,759.9	296.6	2,773.3	0.00	0.00	0.00
9,400.0	90.00	180.79	6,348.0	-2,859.8	295.2	2,873.0	0.00	0.00	0.00

Plan Annotations					
	Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
			+N/-S	+E/-W	
			(ft)	(ft)	
	1,500.0	1,500.0	0.0	0.0	KOP #1
	5,860.1	5,827.1	382.4	340.0	KOP #2
	6,678.3	6,348.0	-138.4	332.9	End of Build



BONANZA CREEK ENERGY OPERATING

SEC.26-T5N-R63W

State North Platte F-26 Pad Sec.26-T5N-R63W

State North Platte F-J-26HNB

Wellbore #1

Plan #1 (2-22-13)

Anticollision Report

27 February, 2013

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte F-J-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4578.0ft (RKB - 13')
Reference Site:	State North Platte F-26 Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4578.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte F-J-26HNB	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 #1 (2-22-13)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (2-22-13)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 2/27/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	10,795.0	Plan #1 (2-22-13) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Separation Factor	Warning	
Offset Well - Wellbore - Design						
State North Platte F-26 Pad Sec.26-T5N-R63W						
State North Platte F-J-26HC - Wellbore #1 - Plan #1 (2-2	200.0	200.0	18.2	17.5	27.014	CC, ES
State North Platte F-J-26HC - Wellbore #1 - Plan #1 (2-2	10,795.4	11,071.0	182.0	102.4	2.286	SF

Offset Design State North Platte F-26 Pad Sec.26-T5N-R63W - State North Platte F-J-26HC - Wellbore #1 - Plan #1 (
Survey Program: 0-MWD											
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation	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)	Factor
0.0	0.0	0.0	0.0	0.0	0.0	0.00	18.2	0.0	18.2	18.2	N/A
100.0	100.0	100.0	100.0	0.1	0.1	0.00	18.2	0.0	18.2	18.0	0.22
200.0	200.0	200.0	200.0	0.3	0.3	0.00	18.2	0.0	18.2	17.5	0.67
300.0	300.0	299.5	299.5	0.6	0.6	3.25	19.5	1.1	19.6	18.5	1.12
400.0	400.0	398.7	398.6	0.8	0.8	10.68	23.5	4.4	23.9	22.4	1.57
500.0	500.0	497.5	496.9	1.0	1.0	18.28	30.0	9.9	31.8	29.7	2.05
600.0	600.0	596.6	595.4	1.2	1.3	23.85	38.5	17.0	42.3	39.8	2.54
700.0	700.0	696.0	694.2	1.5	1.6	27.21	47.0	24.2	53.2	50.1	3.03
800.0	800.0	795.3	792.9	1.7	1.9	29.43	55.5	31.3	64.1	60.6	3.52
900.0	900.0	894.7	891.7	1.9	2.2	31.00	64.0	38.5	75.2	71.2	4.01
1,000.0	1,000.0	994.1	990.4	2.1	2.5	32.17	72.6	45.6	86.3	81.8	4.50
1,100.0	1,100.0	1,093.4	1,089.2	2.4	2.8	33.07	81.1	52.8	97.4	92.4	4.99
1,200.0	1,200.0	1,192.8	1,187.9	2.6	3.1	33.79	89.6	60.0	108.5	103.0	5.49
1,300.0	1,300.0	1,292.2	1,286.7	2.8	3.4	34.37	98.1	67.1	119.7	113.7	5.98
1,400.0	1,400.0	1,391.6	1,385.4	3.0	3.7	34.85	106.7	74.3	130.8	124.3	6.47
1,500.0	1,500.0	1,490.9	1,484.1	3.3	4.0	35.26	115.2	81.4	142.0	135.0	6.96
1,600.0	1,600.0	1,590.5	1,583.1	3.5	4.3	-6.08	123.7	88.6	151.4	144.3	7.07
1,700.0	1,699.8	1,690.3	1,682.3	3.7	4.6	-5.95	132.3	95.8	157.4	149.9	7.52
1,800.0	1,799.5	1,790.2	1,781.6	3.9	4.9	-5.97	140.9	103.0	159.9	151.9	7.97
1,881.7	1,880.6	1,871.9	1,862.8	4.1	5.1	-6.08	147.9	108.9	159.4	151.1	8.34
1,900.0	1,898.7	1,890.2	1,880.9	4.2	5.2	-6.12	149.5	110.2	159.0	150.6	8.42
2,000.0	1,997.8	1,990.2	1,980.3	4.4	5.5	-6.31	158.0	117.4	157.0	148.1	8.88
2,100.0	2,096.9	2,090.2	2,079.6	4.7	5.8	-6.52	166.6	124.6	154.9	145.6	9.35
2,200.0	2,196.1	2,190.2	2,179.0	4.9	6.1	-6.72	175.2	131.8	152.9	143.0	9.82

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 State North Platte F-J-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4578.0ft (RKB - 13')
Reference Site:	State North Platte F-26 Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4578.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte F-J-26HNB	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 #1 (2-22-13)	Offset TVD Reference:	Offset Datum

Offset Design State North Platte F-26 Pad Sec.26-T5N-R63W - State North Platte F-J-26HC - Wellbore #1 - Plan #1 (Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
2,300.0	2,295.2	2,290.2	2,278.3	5.2	6.4	-6.93		183.8	139.0	150.8	140.5	10.29	14.656	
2,400.0	2,394.3	2,390.1	2,377.7	5.5	6.7	-7.15		192.4	146.2	148.8	138.0	10.76	13.822	
2,500.0	2,493.4	2,490.1	2,477.0	5.8	7.0	-7.38		200.9	153.4	146.7	135.5	11.24	13.057	
2,600.0	2,592.5	2,590.1	2,576.4	6.1	7.3	-7.61		209.5	160.7	144.7	133.0	11.71	12.352	
2,700.0	2,691.6	2,690.1	2,675.7	6.4	7.6	-7.85		218.1	167.9	142.7	130.5	12.19	11.702	
2,800.0	2,790.7	2,790.0	2,775.1	6.7	7.9	-8.09		226.7	175.1	140.6	128.0	12.67	11.099	
2,900.0	2,889.8	2,890.0	2,874.4	7.0	8.2	-8.34		235.3	182.3	138.6	125.4	13.15	10.539	
3,000.0	2,989.0	2,990.0	2,973.8	7.3	8.5	-8.60		243.8	189.5	136.6	122.9	13.63	10.018	
3,100.0	3,088.1	3,090.0	3,073.1	7.6	8.8	-8.87		252.4	196.7	134.5	120.4	14.11	9.532	
3,200.0	3,187.2	3,189.9	3,172.5	7.9	9.1	-9.14		261.0	203.9	132.5	117.9	14.60	9.077	
3,300.0	3,286.3	3,289.9	3,271.8	8.2	9.4	-9.43		269.6	211.1	130.5	115.4	15.08	8.651	
3,400.0	3,385.4	3,389.9	3,371.2	8.5	9.7	-9.72		278.1	218.3	128.5	112.9	15.57	8.251	
3,500.0	3,484.5	3,489.9	3,470.5	8.8	10.0	-10.02		286.7	225.5	126.5	110.4	16.06	7.875	
3,600.0	3,583.6	3,589.9	3,569.9	9.2	10.3	-10.33		295.3	232.7	124.5	107.9	16.55	7.521	
3,700.0	3,682.8	3,689.8	3,669.2	9.5	10.6	-10.65		303.9	239.9	122.4	105.4	17.04	7.186	
3,800.0	3,781.9	3,789.8	3,768.6	9.8	10.9	-10.99		312.5	247.1	120.4	102.9	17.53	6.870	
3,900.0	3,881.0	3,889.8	3,867.9	10.1	11.2	-11.33		321.0	254.3	118.4	100.4	18.02	6.571	
4,000.0	3,980.1	3,989.8	3,967.3	10.4	11.5	-11.69		329.6	261.5	116.4	97.9	18.52	6.288	
4,100.0	4,079.2	4,089.7	4,066.6	10.8	11.9	-12.05		338.2	268.7	114.5	95.4	19.02	6.019	
4,200.0	4,178.3	4,189.7	4,165.9	11.1	12.2	-12.44		346.8	275.9	112.5	93.0	19.52	5.763	
4,300.0	4,277.4	4,289.7	4,265.3	11.4	12.5	-12.83		355.4	283.1	110.5	90.5	20.02	5.520	
4,400.0	4,376.6	4,389.7	4,364.6	11.7	12.8	-13.24		363.9	290.3	108.5	88.0	20.52	5.288	
4,500.0	4,475.7	4,489.7	4,464.0	12.0	13.1	-13.66		372.5	297.5	106.6	85.5	21.03	5.067	
4,600.0	4,574.8	4,589.6	4,563.3	12.4	13.4	-14.10		381.1	304.7	104.6	83.1	21.54	4.857	
4,700.0	4,673.9	4,689.6	4,662.7	12.7	13.7	-14.56		389.7	311.9	102.6	80.6	22.05	4.655	
4,800.0	4,773.0	4,789.6	4,762.0	13.0	14.0	-15.03		398.3	319.2	100.7	78.1	22.56	4.463	
4,900.0	4,872.1	4,889.6	4,861.4	13.3	14.3	-15.53		406.8	326.4	98.7	75.7	23.08	4.279	
5,000.0	4,971.2	4,989.5	4,960.7	13.7	14.6	-16.04		415.4	333.6	96.8	73.2	23.60	4.102	
5,100.0	5,070.3	5,089.5	5,060.1	14.0	14.9	-16.57		424.0	340.8	94.9	70.8	24.12	3.933	
5,200.0	5,169.5	5,189.5	5,159.4	14.3	15.2	-17.13		432.6	348.0	93.0	68.3	24.65	3.771	
5,300.0	5,268.6	5,289.5	5,258.8	14.6	15.5	-17.71		441.1	355.2	91.1	65.9	25.19	3.616	
5,351.3	5,319.4	5,340.8	5,309.7	14.8	15.7	-18.02		445.5	358.9	90.1	64.6	25.46	3.538	
5,400.0	5,367.7	5,389.5	5,358.1	14.9	15.8	-18.23		449.7	362.4	89.6	63.8	25.71	3.483	
5,408.5	5,376.1	5,397.9	5,366.5	15.0	15.8	-18.25		450.5	363.0	89.5	63.8	25.75	3.478	
5,500.0	5,467.2	5,489.4	5,457.5	15.2	16.1	-18.16		458.3	369.6	90.9	64.8	26.13	3.479	
5,600.0	5,567.0	5,589.3	5,556.7	15.4	16.4	-17.46		466.9	376.8	95.6	69.1	26.49	3.611	
5,700.0	5,667.0	5,691.8	5,658.6	15.5	16.7	-16.42		474.8	383.4	102.6	75.9	26.76	3.836	
5,733.0	5,700.0	5,725.9	5,692.6	15.6	16.8	-25.56		476.9	385.2	105.0	78.1	26.88	3.904	
5,800.0	5,767.0	5,795.3	5,761.9	15.7	16.9	-26.11		480.1	387.9	108.9	81.8	27.09	4.019	
5,860.1	5,827.1	5,857.7	5,824.3	15.8	17.0	-26.40		481.8	389.4	111.1	83.8	27.30	4.068	
5,900.0	5,867.0	5,899.0	5,865.6	15.9	17.1	-154.54		482.5	389.9	113.2	86.0	27.20	4.161	
5,950.0	5,916.5	5,950.0	5,916.5	15.9	17.1	-155.56		482.6	390.0	119.0	92.0	27.01	4.406	
6,000.0	5,965.3	5,998.7	5,965.3	15.9	17.2	-157.12		482.6	390.0	129.1	102.4	26.66	4.841	
6,050.0	6,012.8	6,050.0	6,016.6	15.9	17.3	-159.10		482.4	390.0	143.5	117.3	26.14	5.488	
6,100.0	6,058.6	6,115.3	6,081.6	15.8	17.3	-161.31		476.5	389.9	158.5	133.0	25.43	6.232	
6,150.0	6,102.3	6,184.1	6,148.7	15.7	17.3	-163.00		461.6	389.7	172.1	147.6	24.49	7.028	
6,200.0	6,143.4	6,256.4	6,216.4	15.7	17.2	-164.28		436.5	389.4	184.0	160.7	23.36	7.880	
6,250.0	6,181.6	6,331.8	6,282.7	15.6	17.1	-165.24		400.6	388.9	193.9	171.8	22.07	8.785	
6,300.0	6,216.5	6,410.0	6,345.1	15.5	16.9	-165.90		353.8	388.3	201.2	180.6	20.67	9.735	
6,350.0	6,247.9	6,490.2	6,401.2	15.4	16.7	-166.30		296.5	387.5	205.9	186.7	19.24	10.705	
6,400.0	6,275.4	6,571.6	6,448.5	15.3	16.5	-166.44		230.3	386.6	207.8	189.9	17.85	11.639	

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

State North Platte F-26 Pad Sec.26-T5N-R63W - State North Platte F-J-26HC - Wellbore #1 - Plan #1 (Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
6,450.0	6,298.8	6,653.2	6,484.9	15.2	16.3	-166.35	157.4	385.7	206.6	190.0	16.61	12.440		
6,500.0	6,317.8	6,733.8	6,509.3	15.1	16.1	-166.00	80.6	384.6	202.6	187.0	15.65	12.949		
6,550.0	6,332.3	6,812.5	6,521.4	15.1	15.9	-165.39	2.9	383.6	195.9	180.8	15.08	12.990		
6,600.0	6,342.1	6,876.6	6,523.0	15.0	15.9	-164.75	-61.1	382.7	187.3	172.4	14.90	12.576		
6,650.0	6,347.2	6,926.3	6,523.0	15.1	16.1	-164.47	-110.8	382.1	182.4	167.3	15.09	12.088		
6,678.3	6,348.0	6,954.6	6,523.0	15.2	16.3	-164.42	-139.1	381.7	181.7	166.3	15.37	11.818		
6,678.3	6,348.0	6,954.6	6,523.0	15.2	16.3	-164.42	-139.1	381.7	181.7	166.3	15.37	11.818		
6,700.0	6,348.0	6,976.3	6,523.0	15.3	16.4	-164.42	-160.8	381.4	181.7	166.1	15.53	11.699		
6,778.3	6,348.0	7,054.6	6,523.0	15.9	17.0	-164.42	-239.1	380.4	181.7	165.5	16.16	11.239		
6,779.8	6,348.0	7,056.1	6,523.0	15.9	17.0	-164.42	-240.6	380.3	181.7	165.5	16.18	11.230		
6,800.0	6,348.0	7,076.3	6,523.0	16.0	17.2	-164.42	-260.8	380.1	181.7	165.3	16.35	11.112		
6,900.0	6,348.0	7,176.3	6,523.0	16.9	18.1	-164.41	-360.7	378.7	181.7	164.4	17.31	10.495		
7,000.0	6,348.0	7,276.3	6,523.0	18.0	19.2	-164.40	-460.7	377.4	181.7	163.3	18.39	9.880		
7,100.0	6,348.0	7,376.3	6,523.0	19.2	20.4	-164.39	-560.7	376.0	181.7	162.1	19.57	9.287		
7,200.0	6,348.0	7,476.3	6,523.0	20.5	21.7	-164.38	-660.7	374.6	181.7	160.9	20.82	8.727		
7,300.0	6,348.0	7,576.3	6,523.0	21.8	23.1	-164.37	-760.7	373.3	181.7	159.6	22.15	8.205		
7,400.0	6,348.0	7,676.3	6,523.0	23.3	24.5	-164.36	-860.7	371.9	181.7	158.2	23.53	7.724		
7,500.0	6,348.0	7,776.3	6,523.0	24.8	26.0	-164.35	-960.7	370.6	181.7	156.8	24.96	7.282		
7,600.0	6,348.0	7,876.3	6,523.0	26.4	27.6	-164.34	-1,060.7	369.2	181.8	155.3	26.42	6.878		
7,700.0	6,348.0	7,976.3	6,523.0	28.0	29.2	-164.33	-1,160.7	367.9	181.8	153.8	27.93	6.509		
7,800.0	6,348.0	8,076.3	6,523.0	29.6	30.8	-164.31	-1,260.7	366.5	181.8	152.3	29.45	6.171		
7,900.0	6,348.0	8,176.3	6,523.0	31.3	32.5	-164.30	-1,360.7	365.2	181.8	150.8	31.01	5.862		
8,000.0	6,348.0	8,276.3	6,523.0	33.0	34.1	-164.29	-1,460.6	363.8	181.8	149.2	32.58	5.579		
8,100.0	6,348.0	8,376.3	6,523.0	34.7	35.8	-164.28	-1,560.6	362.5	181.8	147.6	34.18	5.319		
8,200.0	6,348.0	8,476.3	6,523.0	36.4	37.6	-164.27	-1,660.6	361.1	181.8	146.0	35.78	5.081		
8,300.0	6,348.0	8,576.3	6,523.0	38.2	39.3	-164.26	-1,760.6	359.8	181.8	144.4	37.41	4.860		
8,400.0	6,348.0	8,676.3	6,523.0	40.0	41.1	-164.25	-1,860.6	358.4	181.8	142.8	39.04	4.657		
8,500.0	6,348.0	8,776.3	6,523.0	41.8	42.9	-164.24	-1,960.6	357.1	181.8	141.1	40.69	4.469		
8,600.0	6,348.0	8,876.3	6,523.0	43.6	44.6	-164.23	-2,060.6	355.7	181.8	139.5	42.34	4.295		
8,700.0	6,348.0	8,976.3	6,523.0	45.4	46.4	-164.22	-2,160.6	354.4	181.9	137.8	44.01	4.132		
8,800.0	6,348.0	9,076.3	6,523.0	47.2	48.2	-164.21	-2,260.6	353.0	181.9	136.2	45.68	3.981		
8,900.0	6,348.0	9,176.3	6,523.0	49.0	50.1	-164.20	-2,360.6	351.7	181.9	134.5	47.36	3.840		
9,000.0	6,348.0	9,276.3	6,523.0	50.8	51.9	-164.19	-2,460.6	350.3	181.9	132.8	49.04	3.709		
9,100.0	6,348.0	9,376.3	6,523.0	52.7	53.7	-164.18	-2,560.5	349.0	181.9	131.2	50.73	3.585		
9,200.0	6,348.0	9,476.3	6,523.0	54.5	55.5	-164.17	-2,660.5	347.6	181.9	129.5	52.43	3.469		
9,300.0	6,348.0	9,576.3	6,523.0	56.3	57.4	-164.16	-2,760.5	346.3	181.9	127.8	54.13	3.360		
9,400.0	6,348.0	9,676.3	6,523.0	58.2	59.2	-164.15	-2,860.5	344.9	181.9	126.1	55.84	3.258		
9,500.0	6,348.0	9,776.3	6,523.0	60.0	61.1	-164.14	-2,960.5	343.5	181.9	124.4	57.55	3.161		
9,600.0	6,348.0	9,876.3	6,523.0	61.9	62.9	-164.13	-3,060.5	342.2	181.9	122.7	59.26	3.070		
9,700.0	6,348.0	9,976.3	6,523.0	63.8	64.8	-164.12	-3,160.5	340.8	181.9	121.0	60.98	2.984		
9,800.0	6,348.0	10,076.3	6,523.0	65.6	66.6	-164.11	-3,260.5	339.5	182.0	119.3	62.70	2.902		
9,900.0	6,348.0	10,176.3	6,523.0	67.5	68.5	-164.10	-3,360.5	338.1	182.0	117.5	64.42	2.825		
10,000.0	6,348.0	10,276.3	6,523.0	69.4	70.4	-164.09	-3,460.5	336.8	182.0	115.8	66.15	2.751		
10,100.0	6,348.0	10,376.3	6,523.0	71.2	72.2	-164.08	-3,560.5	335.4	182.0	114.1	67.88	2.681		
10,200.0	6,348.0	10,476.3	6,523.0	73.1	74.1	-164.07	-3,660.4	334.1	182.0	112.4	69.61	2.614		
10,300.0	6,348.0	10,576.3	6,523.0	75.0	76.0	-164.06	-3,760.4	332.7	182.0	110.7	71.35	2.551		
10,400.0	6,348.0	10,676.3	6,523.0	76.9	77.8	-164.05	-3,860.4	331.4	182.0	108.9	73.08	2.490		
10,500.0	6,348.0	10,776.3	6,523.0	78.7	79.7	-164.04	-3,960.4	330.0	182.0	107.2	74.82	2.433		
10,600.0	6,348.0	10,876.3	6,523.0	80.6	81.6	-164.03	-4,060.4	328.7	182.0	105.5	76.56	2.377		
10,700.0	6,348.0	10,976.3	6,523.0	82.5	83.5	-164.02	-4,160.4	327.3	182.0	103.7	78.31	2.325		
10,756.6	6,348.0	11,032.9	6,523.0	83.4	84.6	-164.01	-4,217.0	326.6	182.0	102.9	79.10	2.301		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte F-J-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4578.0ft (RKB - 13')
Reference Site:	State North Platte F-26 Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4578.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte F-J-26HNB	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 #1 (2-22-13)	Offset TVD Reference:	Offset Datum

Offset Design State North Platte F-26 Pad Sec.26-T5N-R63W - State North Platte F-J-26HC - Wellbore #1 - Plan #1 (Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,795.4	6,348.0	11,071.0	6,523.0	84.0	85.3	-164.01	-4,255.1	326.0	182.0	102.4	79.64	2.286 SF		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte F-J-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4578.0ft (RKB - 13')
Reference Site:	State North Platte F-26 Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4578.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte F-J-26HNB	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 #1 (2-22-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4578.0ft (RKB - 13')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: State North Platte F-J-26HNB
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.70°



Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte F-J-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4578.0ft (RKB - 13')
Reference Site:	State North Platte F-26 Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4578.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte F-J-26HNB	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 #1 (2-22-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4578.0ft (RKB - 13')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: State North Platte F-J-26HNB
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.70°

