

# BONANZA CREEK ENERGY OPERATING

Well Name: **North Platte Federal 11-14-22HNC**

Surface Location: North Platte F-22 Pad Sec.22-T5N-R63W

North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

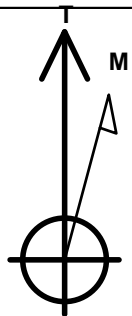
Ground Elevation: 4657.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1386850.17	3298927.59	40.390340	-104.426818	

RKB - 13' WELL @ 4670.0ft (RKB - 13')

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 657'FNL & 1205'FWL	1.0	0.0	0.0	Point
BHL 470'FSL & 620'FWL	6551.0	-4144.0	-580.6	Point
T1 531'FNL & 610'FWL	6551.0	130.8	-595.0	Point



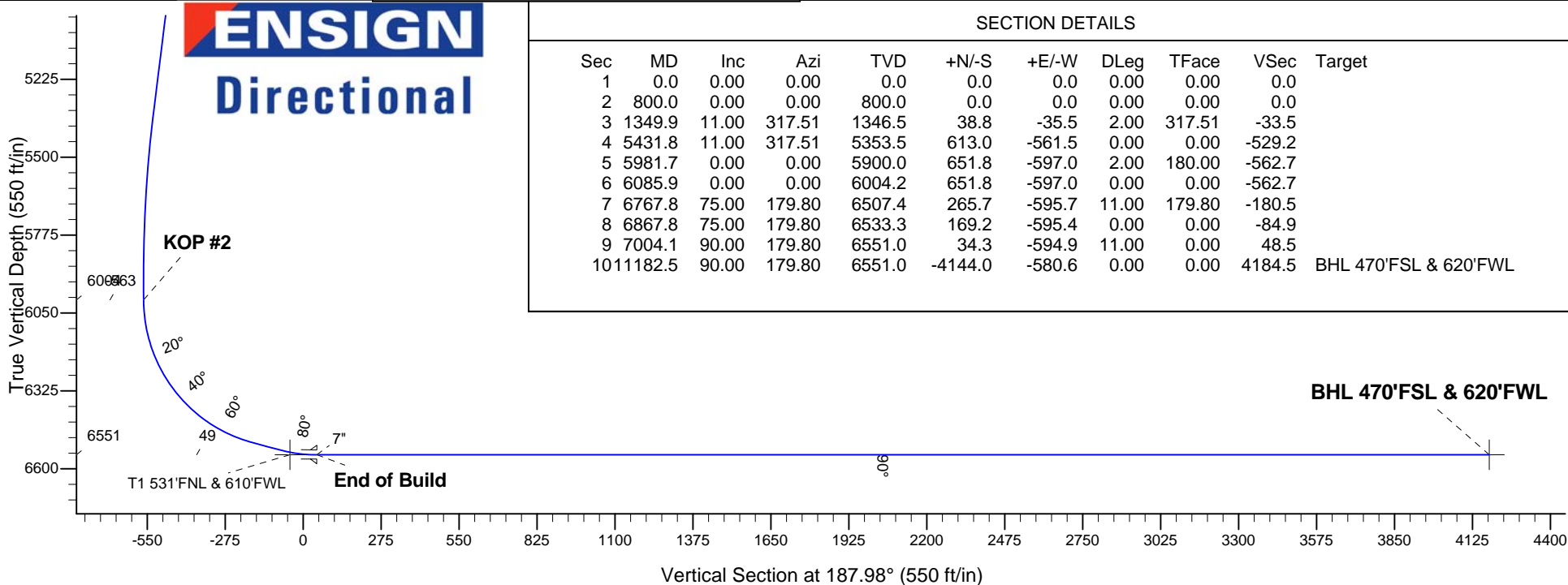
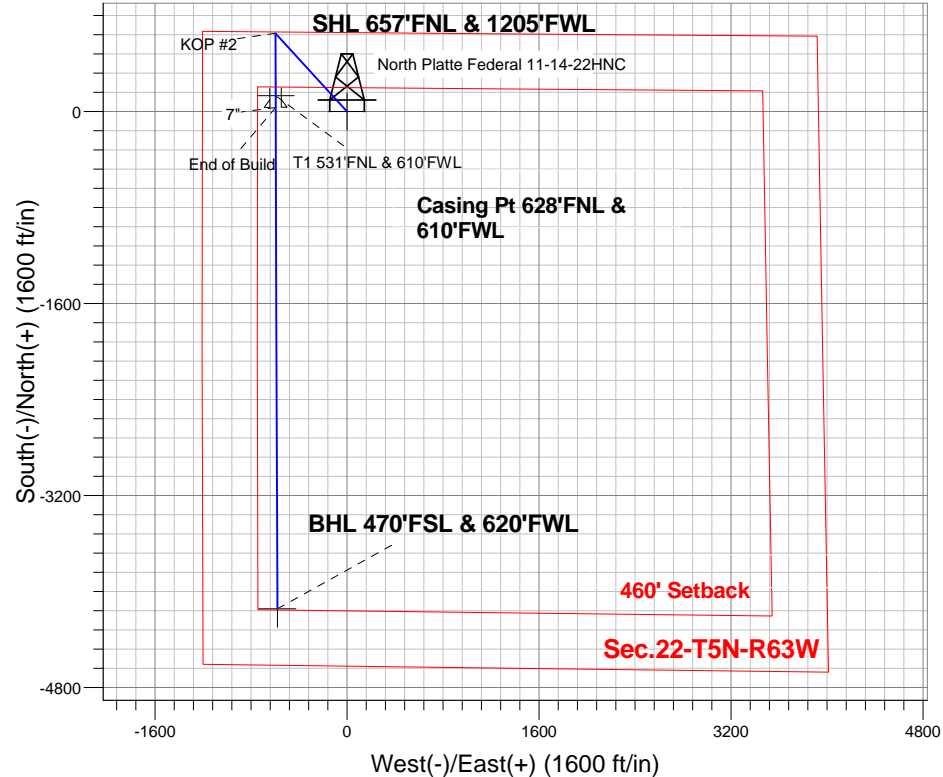
Azimuths to True North  
Magnetic North: 8.36°

Magnetic Field  
Strength: 52908.8nT  
Dip Angle: 67.01°  
Date: 11/12/2013  
Model: IGRF2010

North Platte F-22 Pad Sec.22-T5N-R63W  
North Platte Federal 11-14-22HNC  
Plan #1 (11-12-13)  
15:05, November 20 2013

## ANNOTATIONS

TVD	MD	Annotation
800.0	800.0	KOP #1
6004.2	6085.9	KOP #2
6551.0	7004.1	End of Build





# **BONANZA CREEK ENERGY OPERATING**

**SEC.22-T5N-R63W**

**North Platte F-22 Pad Sec.22-T5N-R63W**

**North Platte Federal 11-14-22HNC**

**Wellbore #1**

**Plan: Plan #1 (11-12-13)**

## **Standard Planning Report**

**20 November, 2013**

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Project:</b>	SEC.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>North Reference:</b>	True
<b>Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (11-12-13)		

<b>Project</b>	SEC.22-T5N-R63W, Weld County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site						North Platte F-22 Pad Sec.22-T5N-R63W											
Site Position:						Northing:			1,386,850.19ft			Latitude:			40.390340		
From:			Lat/Long			Easting:			3,298,927.59ft			Longitude:			-104.426818		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.69 °		

Well	North Platte Federal 11-14-22HNC					
Well Position	+N/-S	0.0 ft	Northing:	1,386,850.17 ft	Latitude:	40.390340
	+E/-W	0.0 ft	Easting:	3,298,927.59 ft	Longitude:	-104.426818
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,657.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	11/12/2013	8.36	67.01	52,909

<b>Design</b>	Plan #1 (11-12-13)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	187.98

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,349.9	11.00	317.51	1,346.5	38.8	-35.5	2.00	2.00	0.00	317.51	
5,431.8	11.00	317.51	5,353.5	613.0	-561.5	0.00	0.00	0.00	0.00	
5,981.7	0.00	0.00	5,900.0	651.8	-597.0	2.00	-2.00	0.00	180.00	
6,085.9	0.00	0.00	6,004.2	651.8	-597.0	0.00	0.00	0.00	0.00	
6,767.8	75.00	179.80	6,507.4	265.7	-595.7	11.00	11.00	0.00	179.80	
6,867.8	75.00	179.80	6,533.3	169.2	-595.4	0.00	0.00	0.00	0.00	
7,004.1	90.00	179.80	6,551.0	34.3	-594.9	11.00	11.00	0.00	0.00	
11,182.5	90.00	179.80	6,551.0	-4,144.0	-580.6	0.00	0.00	0.00	0.00	BHL 470'FSL & 62C

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Project:</b>	SEC.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>North Reference:</b>	True
<b>Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (11-12-13)		

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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>SHL 657'FNL &amp; 1205'FWL</b>									
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
<b>KOP #1</b>									
900.0	2.00	317.51	900.0	1.3	-1.2	-1.1	2.00	2.00	0.00
1,000.0	4.00	317.51	999.8	5.1	-4.7	-4.4	2.00	2.00	0.00
1,100.0	6.00	317.51	1,099.5	11.6	-10.6	-10.0	2.00	2.00	0.00
1,200.0	8.00	317.51	1,198.7	20.6	-18.8	-17.7	2.00	2.00	0.00
1,300.0	10.00	317.51	1,297.5	32.1	-29.4	-27.7	2.00	2.00	0.00
1,349.9	11.00	317.51	1,346.5	38.8	-35.5	-33.5	2.00	2.00	0.00
1,400.0	11.00	317.51	1,395.7	45.8	-42.0	-39.6	0.00	0.00	0.00
1,500.0	11.00	317.51	1,493.9	59.9	-54.9	-51.7	0.00	0.00	0.00
1,600.0	11.00	317.51	1,592.0	74.0	-67.8	-63.9	0.00	0.00	0.00
1,700.0	11.00	317.51	1,690.2	88.0	-80.6	-76.0	0.00	0.00	0.00
1,800.0	11.00	317.51	1,788.4	102.1	-93.5	-88.1	0.00	0.00	0.00
1,900.0	11.00	317.51	1,886.5	116.2	-106.4	-100.3	0.00	0.00	0.00
2,000.0	11.00	317.51	1,984.7	130.2	-119.3	-112.4	0.00	0.00	0.00
2,100.0	11.00	317.51	2,082.9	144.3	-132.2	-124.6	0.00	0.00	0.00
2,200.0	11.00	317.51	2,181.0	158.4	-145.1	-136.7	0.00	0.00	0.00
2,300.0	11.00	317.51	2,279.2	172.5	-158.0	-148.9	0.00	0.00	0.00
2,400.0	11.00	317.51	2,377.3	186.5	-170.8	-161.0	0.00	0.00	0.00
2,500.0	11.00	317.51	2,475.5	200.6	-183.7	-173.2	0.00	0.00	0.00
2,600.0	11.00	317.51	2,573.7	214.7	-196.6	-185.3	0.00	0.00	0.00
2,700.0	11.00	317.51	2,671.8	228.7	-209.5	-197.4	0.00	0.00	0.00
2,800.0	11.00	317.51	2,770.0	242.8	-222.4	-209.6	0.00	0.00	0.00
2,900.0	11.00	317.51	2,868.2	256.9	-235.3	-221.7	0.00	0.00	0.00
3,000.0	11.00	317.51	2,966.3	270.9	-248.1	-233.9	0.00	0.00	0.00
3,100.0	11.00	317.51	3,064.5	285.0	-261.0	-246.0	0.00	0.00	0.00
3,200.0	11.00	317.51	3,162.7	299.1	-273.9	-258.2	0.00	0.00	0.00
3,300.0	11.00	317.51	3,260.8	313.1	-286.8	-270.3	0.00	0.00	0.00
3,400.0	11.00	317.51	3,359.0	327.2	-299.7	-282.4	0.00	0.00	0.00
3,500.0	11.00	317.51	3,457.1	341.3	-312.6	-294.6	0.00	0.00	0.00
3,600.0	11.00	317.51	3,555.3	355.3	-325.4	-306.7	0.00	0.00	0.00
3,700.0	11.00	317.51	3,653.5	369.4	-338.3	-318.9	0.00	0.00	0.00
3,800.0	11.00	317.51	3,751.6	383.5	-351.2	-331.0	0.00	0.00	0.00
3,900.0	11.00	317.51	3,849.8	397.5	-364.1	-343.2	0.00	0.00	0.00
4,000.0	11.00	317.51	3,948.0	411.6	-377.0	-355.3	0.00	0.00	0.00
4,100.0	11.00	317.51	4,046.1	425.7	-389.9	-367.4	0.00	0.00	0.00
4,200.0	11.00	317.51	4,144.3	439.7	-402.8	-379.6	0.00	0.00	0.00
4,300.0	11.00	317.51	4,242.5	453.8	-415.6	-391.7	0.00	0.00	0.00
4,400.0	11.00	317.51	4,340.6	467.9	-428.5	-403.9	0.00	0.00	0.00
4,500.0	11.00	317.51	4,438.8	481.9	-441.4	-416.0	0.00	0.00	0.00
4,600.0	11.00	317.51	4,536.9	496.0	-454.3	-428.2	0.00	0.00	0.00
4,700.0	11.00	317.51	4,635.1	510.1	-467.2	-440.3	0.00	0.00	0.00
4,800.0	11.00	317.51	4,733.3	524.1	-480.1	-452.4	0.00	0.00	0.00
4,900.0	11.00	317.51	4,831.4	538.2	-492.9	-464.6	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
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<b>Project:</b>	SEC.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>North Reference:</b>	True
<b>Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (11-12-13)		

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)
5,000.0	11.00	317.51	4,929.6	552.3	-505.8	-476.7	0.00	0.00	0.00
5,100.0	11.00	317.51	5,027.8	566.3	-518.7	-488.9	0.00	0.00	0.00
5,200.0	11.00	317.51	5,125.9	580.4	-531.6	-501.0	0.00	0.00	0.00
5,300.0	11.00	317.51	5,224.1	594.5	-544.5	-513.2	0.00	0.00	0.00
5,400.0	11.00	317.51	5,322.3	608.5	-557.4	-525.3	0.00	0.00	0.00
5,431.8	11.00	317.51	5,353.5	613.0	-561.5	-529.2	0.00	0.00	0.00
5,500.0	9.63	317.51	5,420.6	622.0	-569.7	-536.9	2.00	-2.00	0.00
5,600.0	7.63	317.51	5,519.4	633.1	-579.9	-546.5	2.00	-2.00	0.00
5,700.0	5.63	317.51	5,618.8	641.6	-587.7	-553.8	2.00	-2.00	0.00
5,800.0	3.63	317.51	5,718.4	647.6	-593.1	-559.0	2.00	-2.00	0.00
5,900.0	1.63	317.51	5,818.3	650.9	-596.2	-561.9	2.00	-2.00	0.00
5,981.7	0.00	0.00	5,900.0	651.8	-597.0	-562.7	2.00	-2.00	0.00
6,000.0	0.00	0.00	5,918.3	651.8	-597.0	-562.7	0.00	0.00	0.00
6,085.9	0.00	0.00	6,004.2	651.8	-597.0	-562.7	0.00	0.00	0.00
<b>KOP #2</b>									
6,100.0	1.55	179.80	6,018.3	651.6	-597.0	-562.5	10.97	10.97	0.00
6,200.0	12.55	179.80	6,117.4	639.4	-597.0	-550.3	11.00	11.00	0.00
6,300.0	23.55	179.80	6,212.3	608.4	-596.9	-519.7	11.00	11.00	0.00
6,400.0	34.55	179.80	6,299.6	560.0	-596.7	-471.7	11.00	11.00	0.00
6,500.0	45.55	179.80	6,376.1	495.7	-596.5	-408.2	11.00	11.00	0.00
6,600.0	56.55	179.80	6,438.8	418.1	-596.2	-331.3	11.00	11.00	0.00
6,700.0	67.55	179.80	6,485.6	329.9	-595.9	-244.0	11.00	11.00	0.00
6,767.8	75.00	179.80	6,507.4	265.7	-595.7	-180.5	11.00	11.00	0.00
6,800.0	75.00	179.80	6,515.7	234.6	-595.6	-149.7	0.00	0.00	0.00
6,867.8	75.00	179.80	6,533.3	169.2	-595.4	-84.9	0.00	0.00	0.00
6,900.0	78.55	179.80	6,540.6	137.8	-595.2	-53.8	11.00	11.00	0.00
6,908.0	79.43	179.80	6,542.2	129.9	-595.2	-46.1	11.00	11.00	0.00
<b>T1 531'FNL &amp; 610'FWL</b>									
7,000.0	89.55	179.80	6,551.0	38.5	-594.9	44.5	11.00	11.00	0.00
7,004.1	90.00	179.80	6,551.0	34.4	-594.9	48.5	11.00	11.00	0.00
<b>End of Build - 7"</b>									
7,100.0	90.00	179.80	6,551.0	-61.5	-594.6	143.4	0.00	0.00	0.00
7,200.0	90.00	179.80	6,551.0	-161.5	-594.2	242.4	0.00	0.00	0.00
7,300.0	90.00	179.80	6,551.0	-261.5	-593.9	341.4	0.00	0.00	0.00
7,400.0	90.00	179.80	6,551.0	-361.5	-593.5	440.4	0.00	0.00	0.00
7,500.0	90.00	179.80	6,551.0	-461.5	-593.2	539.4	0.00	0.00	0.00
7,600.0	90.00	179.80	6,551.0	-561.5	-592.9	638.4	0.00	0.00	0.00
7,700.0	90.00	179.80	6,551.0	-661.5	-592.5	737.3	0.00	0.00	0.00
7,800.0	90.00	179.80	6,551.0	-761.5	-592.2	836.3	0.00	0.00	0.00
7,900.0	90.00	179.80	6,551.0	-861.5	-591.8	935.3	0.00	0.00	0.00
8,000.0	90.00	179.80	6,551.0	-961.5	-591.5	1,034.3	0.00	0.00	0.00
8,100.0	90.00	179.80	6,551.0	-1,061.5	-591.1	1,133.3	0.00	0.00	0.00
8,200.0	90.00	179.80	6,551.0	-1,161.5	-590.8	1,232.3	0.00	0.00	0.00
8,300.0	90.00	179.80	6,551.0	-1,261.5	-590.5	1,331.3	0.00	0.00	0.00
8,400.0	90.00	179.80	6,551.0	-1,361.5	-590.1	1,430.2	0.00	0.00	0.00
8,500.0	90.00	179.80	6,551.0	-1,461.5	-589.8	1,529.2	0.00	0.00	0.00
8,600.0	90.00	179.80	6,551.0	-1,561.5	-589.4	1,628.2	0.00	0.00	0.00
8,700.0	90.00	179.80	6,551.0	-1,661.5	-589.1	1,727.2	0.00	0.00	0.00
8,800.0	90.00	179.80	6,551.0	-1,761.5	-588.8	1,826.2	0.00	0.00	0.00
8,900.0	90.00	179.80	6,551.0	-1,861.5	-588.4	1,925.2	0.00	0.00	0.00
9,000.0	90.00	179.80	6,551.0	-1,961.5	-588.1	2,024.1	0.00	0.00	0.00
9,100.0	90.00	179.80	6,551.0	-2,061.5	-587.7	2,123.1	0.00	0.00	0.00
9,200.0	90.00	179.80	6,551.0	-2,161.5	-587.4	2,222.1	0.00	0.00	0.00

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")
7,004.1	6,551.0	7"		7	7-1/2

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Project:</b>	SEC.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>North Reference:</b>	True
<b>Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (11-12-13)		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
800.0	800.0	0.0	0.0	KOP #1
6,085.9	6,004.2	651.8	-597.0	KOP #2
7,004.1	6,551.0	34.4	-594.9	End of Build



# **BONANZA CREEK ENERGY OPERATING**

**SEC.22-T5N-R63W**

**North Platte F-22 Pad Sec.22-T5N-R63W**

**North Platte Federal 11-14-22HNC**

**Wellbore #1**

**Plan #1 (11-12-13)**

## **Anticollision Report**

**20 November, 2013**





<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
1,600.0	1,592.0	1,586.6	1,567.5	3.9	5.0	-14.00	132.6	-157.5	110.0	102.8	7.15	15.379	
1,700.0	1,690.2	1,686.5	1,664.8	4.3	5.5	-15.90	145.6	-175.7	113.9	106.3	7.68	14.841	
1,800.0	1,788.4	1,786.3	1,762.1	4.7	6.0	-17.67	158.6	-193.8	118.0	109.8	8.22	14.361	
1,900.0	1,886.5	1,886.2	1,859.5	5.1	6.4	-19.32	171.6	-212.0	122.2	113.5	8.77	13.930	
2,000.0	1,984.7	1,986.0	1,956.8	5.5	6.9	-20.86	184.6	-230.1	126.5	117.2	9.34	13.539	
2,100.0	2,082.9	2,085.9	2,054.1	5.9	7.4	-22.30	197.6	-248.3	130.9	121.0	9.93	13.184	
2,200.0	2,181.0	2,185.7	2,151.4	6.3	7.9	-23.65	210.6	-266.4	135.3	124.8	10.53	12.859	
2,300.0	2,279.2	2,285.6	2,248.8	6.7	8.3	-24.90	223.6	-284.5	139.9	128.7	11.13	12.561	
2,400.0	2,377.3	2,385.4	2,346.1	7.1	8.8	-26.08	236.5	-302.7	144.5	132.7	11.76	12.287	
2,500.0	2,475.5	2,485.3	2,443.4	7.5	9.3	-27.19	249.5	-320.8	149.1	136.7	12.39	12.035	
2,600.0	2,573.7	2,585.1	2,540.7	7.9	9.8	-28.23	262.5	-339.0	153.8	140.8	13.03	11.801	
2,700.0	2,671.8	2,685.0	2,638.1	8.3	10.3	-29.21	275.5	-357.1	158.5	144.8	13.68	11.585	
2,800.0	2,770.0	2,784.8	2,735.4	8.7	10.7	-30.13	288.5	-375.3	163.3	149.0	14.35	11.384	
2,900.0	2,868.2	2,884.7	2,832.7	9.1	11.2	-30.99	301.5	-393.4	168.1	153.1	15.02	11.198	
3,000.0	2,966.3	2,984.5	2,930.0	9.5	11.7	-31.81	314.5	-411.6	173.0	157.3	15.69	11.025	
3,100.0	3,064.5	3,084.4	3,027.4	10.0	12.2	-32.59	327.5	-429.7	177.9	161.5	16.38	10.863	
3,200.0	3,162.7	3,184.2	3,124.7	10.4	12.7	-33.32	340.5	-447.9	182.8	165.8	17.07	10.713	
3,300.0	3,260.8	3,284.1	3,222.0	10.8	13.1	-34.01	353.5	-466.0	187.8	170.0	17.76	10.572	
3,400.0	3,359.0	3,384.0	3,319.3	11.2	13.6	-34.67	366.5	-484.2	192.8	174.3	18.46	10.440	
3,500.0	3,457.1	3,483.8	3,416.7	11.6	14.1	-35.30	379.5	-502.3	197.8	178.6	19.17	10.316	
3,600.0	3,555.3	3,583.7	3,514.0	12.1	14.6	-35.89	392.5	-520.5	202.8	182.9	19.88	10.200	
3,700.0	3,653.5	3,683.5	3,611.3	12.5	15.1	-36.46	405.4	-538.6	207.8	187.2	20.60	10.091	
3,800.0	3,751.6	3,783.4	3,708.6	12.9	15.6	-37.00	418.4	-556.8	212.9	191.6	21.31	9.988	
3,900.0	3,849.8	3,883.2	3,806.0	13.3	16.0	-37.51	431.4	-574.9	218.0	195.9	22.04	9.892	
4,000.0	3,948.0	3,983.1	3,903.3	13.7	16.5	-38.00	444.4	-593.1	223.1	200.3	22.76	9.800	
4,100.0	4,046.1	4,082.9	4,000.6	14.2	17.0	-38.47	457.4	-611.2	228.2	204.7	23.49	9.714	
4,200.0	4,144.3	4,182.8	4,097.9	14.6	17.5	-38.92	470.4	-629.4	233.3	209.1	24.22	9.633	
4,300.0	4,242.5	4,282.6	4,195.3	15.0	18.0	-39.34	483.4	-647.5	238.5	213.5	24.96	9.555	
4,400.0	4,340.6	4,382.5	4,292.6	15.4	18.5	-39.75	496.4	-665.7	243.6	217.9	25.69	9.482	
4,500.0	4,438.8	4,482.3	4,389.9	15.8	18.9	-40.15	509.4	-683.8	248.8	222.4	26.43	9.413	
4,600.0	4,536.9	4,582.2	4,487.2	16.3	19.4	-40.53	522.4	-702.0	254.0	226.8	27.17	9.347	
4,700.0	4,635.1	4,682.0	4,584.6	16.7	19.9	-40.89	535.4	-720.1	259.2	231.3	27.92	9.284	
4,800.0	4,733.3	4,781.9	4,681.9	17.1	20.4	-41.24	548.4	-738.3	264.4	235.7	28.66	9.224	
4,900.0	4,831.4	4,881.7	4,779.2	17.5	20.9	-41.57	561.4	-756.4	269.6	240.2	29.41	9.168	
5,000.0	4,929.6	4,981.6	4,876.5	18.0	21.4	-41.89	574.4	-774.6	274.8	244.6	30.15	9.113	
5,100.0	5,027.8	5,081.4	4,973.9	18.4	21.8	-42.20	587.3	-792.7	280.0	249.1	30.90	9.062	
5,200.0	5,125.9	5,181.3	5,071.2	18.8	22.3	-42.50	600.3	-810.8	285.3	253.6	31.65	9.012	
5,300.0	5,224.1	5,282.0	5,169.4	19.2	22.8	-42.79	613.4	-829.1	290.5	258.1	32.41	8.964	
5,400.0	5,322.3	5,391.5	5,276.6	19.6	23.2	-43.35	626.3	-847.1	293.8	260.6	33.19	8.852	
5,500.0	5,420.6	5,500.9	5,384.5	20.0	23.5	-44.21	636.7	-861.7	294.5	260.5	34.00	8.663	
5,600.0	5,519.4	5,610.3	5,493.0	20.3	23.8	-45.00	644.7	-872.9	294.4	259.8	34.68	8.491	
5,700.0	5,618.8	5,719.6	5,601.9	20.5	24.0	-45.71	650.3	-880.7	293.7	258.4	35.27	8.327	
5,800.0	5,718.4	5,828.8	5,710.9	20.8	24.2	-46.33	653.5	-885.2	292.2	256.4	35.77	8.169	
5,900.0	5,818.3	5,936.2	5,818.3	20.9	24.3	-46.85	654.3	-886.3	290.1	253.9	36.18	8.017	
6,000.0	5,918.3	6,036.1	5,918.3	21.0	24.4	-89.50	654.3	-886.3	289.3	252.9	36.41	7.946	
6,074.3	5,992.6	6,110.7	5,992.8	21.1	24.5	90.28	651.5	-886.3	289.3	252.5	36.76	7.869	
6,100.0	6,018.3	6,136.0	6,017.9	21.2	24.5	89.52	648.2	-886.3	289.3	252.3	37.01	7.817	
6,200.0	6,117.4	6,233.6	6,112.3	21.2	24.4	87.08	624.4	-886.2	289.7	252.1	37.58	7.708	
6,300.0	6,212.3	6,329.0	6,198.9	21.0	24.2	84.78	584.4	-886.1	290.6	252.9	37.70	7.707	
6,400.0	6,299.6	6,422.7	6,275.3	20.8	24.0	82.68	530.6	-886.0	291.8	254.4	37.36	7.811	
6,500.0	6,376.1	6,514.7	6,339.9	20.4	23.6	80.86	465.1	-885.8	293.2	256.6	36.61	8.008	
6,600.0	6,438.8	6,605.6	6,391.3	20.0	23.3	79.37	390.4	-885.6	294.6	259.0	35.63	8.268	

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

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
6,700.0	6,485.6	6,695.4	6,428.7	19.6	23.0	78.25	308.8	-885.4	295.8	261.2	34.64	8.541	
6,800.0	6,515.7	6,790.4	6,454.9	19.2	22.6	77.76	217.6	-885.2	296.4	262.4	33.99	8.720	
6,900.0	6,540.6	6,884.7	6,477.3	18.8	22.4	77.51	126.1	-885.0	296.8	262.9	33.88	8.760	
7,000.0	6,551.0	6,974.3	6,485.0	18.5	22.2	77.18	36.9	-884.8	297.3	263.2	34.06	8.728	
7,000.1	6,551.0	6,974.3	6,485.0	18.5	22.2	77.18	36.9	-884.8	297.3	263.2	34.06	8.728	
7,100.0	6,551.0	7,073.4	6,485.0	18.3	22.0	77.18	-62.2	-884.5	297.4	262.5	34.87	8.528	
7,200.0	6,551.0	7,173.4	6,485.0	18.2	22.0	77.18	-162.2	-884.3	297.5	261.4	36.05	8.252	
7,300.0	6,551.0	7,273.4	6,485.0	18.8	22.3	77.19	-262.2	-884.0	297.6	260.0	37.57	7.921	
7,400.0	6,551.0	7,373.4	6,485.0	19.8	22.7	77.19	-362.2	-883.8	297.7	258.3	39.39	7.557	
7,500.0	6,551.0	7,473.4	6,485.0	20.9	23.5	77.19	-462.2	-883.5	297.8	256.3	41.47	7.180	
7,600.0	6,551.0	7,573.4	6,485.0	22.1	24.4	77.20	-562.2	-883.3	297.9	254.1	43.78	6.803	
7,700.0	6,551.0	7,673.4	6,485.0	23.4	25.5	77.20	-662.2	-883.1	297.9	251.7	46.28	6.438	
7,800.0	6,551.0	7,773.4	6,485.0	24.8	26.8	77.21	-762.2	-882.8	298.0	249.1	48.94	6.090	
7,900.0	6,551.0	7,873.4	6,485.0	26.3	28.1	77.21	-862.2	-882.6	298.1	246.4	51.74	5.762	
8,000.0	6,551.0	7,973.4	6,485.0	27.8	29.5	77.21	-962.2	-882.3	298.2	243.6	54.65	5.457	
8,100.0	6,551.0	8,073.4	6,485.0	29.3	30.9	77.22	-1,062.2	-882.1	298.3	240.7	57.67	5.173	
8,200.0	6,551.0	8,173.4	6,485.0	30.9	32.5	77.22	-1,162.2	-881.8	298.4	237.7	60.76	4.911	
8,300.0	6,551.0	8,273.4	6,485.0	32.5	34.0	77.23	-1,262.2	-881.6	298.5	234.6	63.93	4.669	
8,400.0	6,551.0	8,373.4	6,485.0	34.1	35.6	77.23	-1,362.2	-881.3	298.6	231.4	67.16	4.446	
8,500.0	6,551.0	8,473.4	6,485.0	35.8	37.2	77.23	-1,462.2	-881.1	298.7	228.3	70.44	4.240	
8,600.0	6,551.0	8,573.4	6,485.0	37.5	38.9	77.24	-1,562.2	-880.9	298.8	225.0	73.77	4.050	
8,700.0	6,551.0	8,673.4	6,485.0	39.2	40.5	77.24	-1,662.2	-880.6	298.9	221.7	77.14	3.875	
8,800.0	6,551.0	8,773.4	6,485.0	40.9	42.2	77.25	-1,762.2	-880.4	299.0	218.4	80.55	3.712	
8,900.0	6,551.0	8,873.4	6,485.0	42.7	43.9	77.25	-1,862.2	-880.1	299.1	215.1	83.98	3.561	
9,000.0	6,551.0	8,973.4	6,485.0	44.4	45.6	77.26	-1,962.2	-879.9	299.2	211.7	87.44	3.421	
9,100.0	6,551.0	9,073.4	6,485.0	46.2	47.4	77.26	-2,062.2	-879.6	299.3	208.3	90.93	3.291	
9,200.0	6,551.0	9,173.4	6,485.0	48.0	49.1	77.26	-2,162.2	-879.4	299.4	204.9	94.44	3.170	
9,300.0	6,551.0	9,273.4	6,485.0	49.8	50.9	77.27	-2,262.2	-879.1	299.5	201.5	97.97	3.057	
9,400.0	6,551.0	9,373.4	6,485.0	51.6	52.7	77.27	-2,362.2	-878.9	299.6	198.0	101.51	2.951	
9,500.0	6,551.0	9,473.4	6,485.0	53.4	54.5	77.28	-2,462.2	-878.7	299.6	194.6	105.07	2.852	
9,600.0	6,551.0	9,573.4	6,485.0	55.2	56.3	77.28	-2,562.2	-878.4	299.7	191.1	108.64	2.759	
9,700.0	6,551.0	9,673.4	6,485.0	57.0	58.1	77.28	-2,662.2	-878.2	299.8	187.6	112.23	2.672	
9,800.0	6,551.0	9,773.4	6,485.0	58.9	59.9	77.29	-2,762.2	-877.9	299.9	184.1	115.82	2.590	
9,900.0	6,551.0	9,873.4	6,485.0	60.7	61.7	77.29	-2,862.2	-877.7	300.0	180.6	119.43	2.512	
10,000.0	6,551.0	9,973.4	6,485.0	62.5	63.5	77.30	-2,962.2	-877.4	300.1	177.1	123.05	2.439	
10,100.0	6,551.0	10,073.4	6,485.0	64.4	65.3	77.30	-3,062.2	-877.2	300.2	173.5	126.68	2.370	
10,200.0	6,551.0	10,173.4	6,485.0	66.2	67.1	77.30	-3,162.2	-876.9	300.3	170.0	130.31	2.305	
10,300.0	6,551.0	10,273.4	6,485.0	68.1	69.0	77.31	-3,262.2	-876.7	300.4	166.5	133.95	2.243	
10,400.0	6,551.0	10,373.4	6,485.0	69.9	70.8	77.31	-3,362.2	-876.5	300.5	162.9	137.60	2.184	
10,500.0	6,551.0	10,473.4	6,485.0	71.8	72.7	77.32	-3,462.2	-876.2	300.6	159.3	141.25	2.128	
10,600.0	6,551.0	10,573.4	6,485.0	73.7	74.5	77.32	-3,562.2	-876.0	300.7	155.8	144.91	2.075	
10,700.0	6,551.0	10,673.4	6,485.0	75.5	76.4	77.32	-3,662.2	-875.7	300.8	152.2	148.58	2.024	
10,800.0	6,551.0	10,773.4	6,485.0	77.4	78.2	77.33	-3,762.2	-875.5	300.9	148.6	152.25	1.976	
10,900.0	6,551.0	10,873.4	6,485.0	79.3	80.1	77.33	-3,862.2	-875.2	301.0	145.0	155.92	1.930	
11,000.0	6,551.0	10,973.4	6,485.0	81.1	81.9	77.34	-3,962.2	-875.0	301.1	141.5	159.60	1.886	
11,100.0	6,551.0	11,073.4	6,485.0	83.0	83.8	77.34	-4,062.2	-874.7	301.2	137.9	163.29	1.844	
11,144.9	6,551.0	11,118.3	6,485.0	83.9	84.6	77.34	-4,107.1	-874.6	301.2	136.3	164.94	1.826	
11,182.5	6,551.0	11,151.2	6,485.0	84.6	85.3	77.34	-4,140.0	-874.6	301.3	135.0	166.24	1.812 SF	

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-0.80	40.1	-0.6	40.1	40.1	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	-0.80	40.1	-0.6	40.1	39.9	0.23	176.563		
166.3	166.3	167.3	167.3	0.3	0.3	-0.80	40.1	-0.6	40.1	39.6	0.53	76.320 CC		
200.0	200.0	201.0	201.0	0.3	0.3	-0.80	40.1	-0.6	40.1	39.4	0.68	59.251 ES		
300.0	300.0	300.0	300.0	0.6	0.6	-2.95	40.9	-2.1	40.9	39.8	1.12	36.599		
400.0	400.0	399.4	399.2	0.8	0.8	-8.83	43.3	-6.7	43.8	42.2	1.57	27.910		
500.0	500.0	498.0	497.4	1.0	1.0	-16.88	47.2	-14.3	49.4	47.4	2.04	24.182		
600.0	600.0	595.8	594.6	1.2	1.3	-25.26	52.6	-24.8	58.5	56.0	2.55	22.944		
700.0	700.0	692.8	690.4	1.5	1.6	-32.67	59.5	-38.1	71.4	68.3	3.09	23.125		
800.0	800.0	788.6	784.5	1.7	2.0	-38.63	67.7	-54.1	88.2	84.6	3.66	24.125		
900.0	900.0	883.5	877.0	1.9	2.4	-0.76	77.3	-72.7	107.1	103.1	3.95	27.085		
1,000.0	999.8	979.1	969.6	2.1	2.9	-4.48	88.3	-94.0	125.9	121.5	4.42	28.480		
1,100.0	1,099.5	1,077.5	1,064.6	2.4	3.4	-7.52	99.9	-116.4	142.4	137.5	4.89	29.149		
1,200.0	1,198.7	1,176.3	1,160.2	2.6	3.9	-10.13	111.5	-139.1	155.9	150.5	5.35	29.113		
1,300.0	1,297.5	1,275.5	1,256.0	2.9	4.4	-12.57	123.2	-161.7	166.2	160.4	5.82	28.537		
1,400.0	1,395.7	1,375.0	1,352.1	3.2	5.0	-15.00	135.0	-184.5	173.9	167.6	6.31	27.533		
1,500.0	1,493.9	1,474.4	1,448.2	3.6	5.5	-17.28	146.7	-207.2	181.4	174.6	6.83	26.565		
1,600.0	1,592.0	1,573.9	1,544.3	3.9	6.0	-19.37	158.4	-230.0	189.2	181.9	7.36	25.717		
1,700.0	1,690.2	1,673.4	1,640.5	4.3	6.6	-21.30	170.2	-252.7	197.3	189.4	7.90	24.960		
1,800.0	1,788.4	1,772.8	1,736.6	4.7	7.1	-23.07	181.9	-275.4	205.5	197.1	8.47	24.277		
1,900.0	1,886.5	1,872.3	1,832.7	5.1	7.7	-24.71	193.6	-298.2	214.0	204.9	9.05	23.655		
2,000.0	1,984.7	1,971.7	1,928.8	5.5	8.2	-26.22	205.4	-320.9	222.6	212.9	9.64	23.087		
2,100.0	2,082.9	2,071.2	2,024.9	5.9	8.7	-27.62	217.1	-343.7	231.3	221.0	10.25	22.564		
2,200.0	2,181.0	2,170.7	2,121.0	6.3	9.3	-28.91	228.8	-366.4	240.2	229.3	10.88	22.083		
2,300.0	2,279.2	2,270.1	2,217.2	6.7	9.8	-30.12	240.6	-389.2	249.1	237.6	11.51	21.639		
2,400.0	2,377.3	2,369.6	2,313.3	7.1	10.4	-31.24	252.3	-411.9	258.2	246.0	12.16	21.228		
2,500.0	2,475.5	2,469.1	2,409.4	7.5	10.9	-32.28	264.0	-434.6	267.4	254.6	12.83	20.848		
2,600.0	2,573.7	2,568.5	2,505.5	7.9	11.5	-33.25	275.8	-457.4	276.6	263.1	13.50	20.495		
2,700.0	2,671.8	2,668.0	2,601.6	8.3	12.0	-34.16	287.5	-480.1	286.0	271.8	14.18	20.168		
2,800.0	2,770.0	2,767.5	2,697.7	8.7	12.6	-35.02	299.2	-502.9	295.4	280.5	14.87	19.863		
2,900.0	2,868.2	2,866.9	2,793.9	9.1	13.1	-35.82	311.0	-525.6	304.8	289.2	15.57	19.580		
3,000.0	2,966.3	2,966.4	2,890.0	9.5	13.7	-36.57	322.7	-548.4	314.3	298.0	16.27	19.316		
3,100.0	3,064.5	3,065.9	2,986.1	10.0	14.2	-37.28	334.4	-571.1	323.9	306.9	16.98	19.070		
3,200.0	3,162.7	3,165.3	3,082.2	10.4	14.7	-37.95	346.2	-593.8	333.5	315.8	17.70	18.840		
3,300.0	3,260.8	3,264.8	3,178.3	10.8	15.3	-38.58	357.9	-616.6	343.1	324.7	18.42	18.625		
3,400.0	3,359.0	3,364.2	3,274.4	11.2	15.8	-39.17	369.6	-639.3	352.8	333.7	19.15	18.423		
3,500.0	3,457.1	3,463.7	3,370.6	11.6	16.4	-39.74	381.4	-662.1	362.5	342.7	19.88	18.234		
3,600.0	3,555.3	3,563.2	3,466.7	12.1	16.9	-40.27	393.1	-684.8	372.3	351.7	20.62	18.056		
3,700.0	3,653.5	3,662.6	3,562.8	12.5	17.5	-40.78	404.8	-707.6	382.1	360.7	21.36	17.889		
3,800.0	3,751.6	3,762.1	3,658.9	12.9	18.0	-41.26	416.6	-730.3	391.9	369.8	22.10	17.732		
3,900.0	3,849.8	3,861.6	3,755.0	13.3	18.6	-41.72	428.3	-753.0	401.7	378.9	22.85	17.583		
4,000.0	3,948.0	3,961.0	3,851.1	13.7	19.1	-42.15	440.0	-775.8	411.6	388.0	23.60	17.443		
4,100.0	4,046.1	4,060.5	3,947.2	14.2	19.7	-42.57	451.8	-798.5	421.5	397.2	24.35	17.311		
4,200.0	4,144.3	4,160.0	4,043.4	14.6	20.2	-42.97	463.5	-821.3	431.4	406.3	25.10	17.186		
4,300.0	4,242.5	4,259.4	4,139.5	15.0	20.8	-43.34	475.2	-844.0	441.3	415.5	25.86	17.067		
4,400.0	4,340.6	4,358.9	4,235.6	15.4	21.3	-43.71	487.0	-866.8	451.3	424.7	26.62	16.954		
4,500.0	4,438.8	4,458.4	4,331.7	15.8	21.9	-44.05	498.7	-889.5	461.3	433.9	27.38	16.847		
4,600.0	4,536.9	4,557.8	4,427.8	16.3	22.4	-44.38	510.4	-912.2	471.2	443.1	28.14	16.746		
4,700.0	4,635.1	4,657.3	4,523.9	16.7	23.0	-44.70	522.2	-935.0	481.2	452.3	28.90	16.649		
4,800.0	4,733.3	4,756.8	4,620.1	17.1	23.5	-45.01	533.9	-957.7	491.2	461.6	29.67	16.557		
4,900.0	4,831.4	4,856.2	4,716.2	17.5	24.0	-45.30	545.6	-980.5	501.3	470.8	30.44	16.469		
5,000.0	4,929.6	4,955.7	4,812.3	18.0	24.6	-45.58	557.4	-1,003.2	511.3	480.1	31.20	16.385		

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

Offset Design		North Platte F-22 Pad Sec.22-T5N-R63W - North Platte Federal A-E-22HC - Wellbore #1 - Plan #1 (11-											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)				
5,100.0	5,027.8	5,055.1	4,908.4	18.4	25.1	-45.85	569.1	-1,026.0	521.3	489.4	31.97	16.305			
5,200.0	5,125.9	5,154.6	5,004.5	18.8	25.7	-46.11	580.8	-1,048.7	531.4	498.7	32.74	16.228			
5,300.0	5,224.1	5,254.1	5,100.6	19.2	26.2	-46.36	592.5	-1,071.4	541.5	508.0	33.52	16.155			
5,400.0	5,322.3	5,353.5	5,196.8	19.6	26.8	-46.61	604.3	-1,094.2	551.5	517.3	34.29	16.085			
5,500.0	5,420.6	5,459.5	5,299.2	20.0	27.3	-46.90	616.7	-1,118.2	562.0	527.0	35.04	16.041			
5,600.0	5,519.4	5,580.3	5,416.9	20.3	27.8	-47.14	629.1	-1,142.3	571.9	536.2	35.66	16.035			
5,700.0	5,618.8	5,701.6	5,536.2	20.5	28.2	-47.28	639.3	-1,162.0	580.4	544.2	36.18	16.040			
5,800.0	5,718.4	5,823.5	5,656.8	20.8	28.5	-47.33	647.1	-1,177.2	587.5	550.9	36.59	16.054			
5,900.0	5,818.3	5,945.7	5,778.5	20.9	28.8	-47.28	652.6	-1,187.9	593.1	556.2	36.90	16.072			
6,000.0	5,918.3	6,068.3	5,900.9	21.0	29.0	-89.62	655.8	-1,194.0	597.3	560.3	37.07	16.115			
6,100.0	6,018.3	6,186.8	6,019.3	21.2	29.1	90.67	656.6	-1,195.6	598.6	561.2	37.41	16.000			
6,200.0	6,117.4	6,286.2	6,118.7	21.2	29.2	91.80	656.5	-1,195.6	598.8	561.7	37.19	16.104			
6,300.0	6,212.3	6,389.7	6,221.4	21.0	29.2	93.65	644.6	-1,195.5	599.8	563.4	36.48	16.444			
6,400.0	6,299.6	6,497.7	6,323.7	20.8	29.1	95.41	610.8	-1,195.5	601.4	565.8	35.58	16.903			
6,500.0	6,376.1	6,610.3	6,420.7	20.4	28.9	96.99	553.9	-1,195.5	603.4	568.8	34.61	17.432			
6,600.0	6,438.8	6,727.5	6,506.2	20.0	28.6	98.30	474.2	-1,195.4	605.4	571.7	33.72	17.954			
6,700.0	6,485.6	6,848.5	6,573.5	19.6	28.2	99.27	373.9	-1,195.3	607.2	574.2	33.05	18.375			
6,800.0	6,515.7	6,969.8	6,616.0	19.2	27.9	99.77	260.6	-1,195.2	608.3	575.6	32.67	18.621			
6,900.0	6,540.6	7,072.3	6,642.4	18.8	27.6	99.83	161.5	-1,195.1	608.7	576.0	32.68	18.626			
7,000.0	6,551.0	7,197.2	6,657.0	18.5	27.4	99.93	37.9	-1,194.9	609.2	576.0	33.16	18.370			
7,100.0	6,551.0	7,297.2	6,657.0	18.3	27.3	99.92	-62.1	-1,194.8	609.4	575.6	33.83	18.012			
7,200.0	6,551.0	7,397.2	6,657.0	18.2	27.3	99.92	-162.1	-1,194.7	609.6	574.7	34.90	17.468			
7,300.0	6,551.0	7,497.2	6,657.0	18.8	27.5	99.91	-262.1	-1,194.6	609.9	573.5	36.34	16.785			
7,400.0	6,551.0	7,597.2	6,657.0	19.8	27.8	99.91	-362.1	-1,194.5	610.1	572.0	38.10	16.015			
7,500.0	6,551.0	7,697.1	6,657.0	20.9	28.2	99.91	-462.1	-1,194.4	610.3	570.2	40.14	15.206			
7,600.0	6,551.0	7,797.1	6,657.0	22.1	28.8	99.90	-562.1	-1,194.3	610.6	568.2	42.42	14.392			
7,700.0	6,551.0	7,897.1	6,657.0	23.4	29.6	99.90	-662.1	-1,194.2	610.8	565.9	44.91	13.600			
7,800.0	6,551.0	7,997.1	6,657.0	24.8	30.5	99.89	-762.1	-1,194.1	611.1	563.5	47.58	12.843			
7,900.0	6,551.0	8,097.1	6,657.0	26.3	31.6	99.89	-862.1	-1,194.0	611.3	560.9	50.39	12.132			
8,000.0	6,551.0	8,197.1	6,657.0	27.8	32.7	99.89	-962.1	-1,193.9	611.5	558.2	53.32	11.470			
8,100.0	6,551.0	8,297.1	6,657.0	29.3	34.0	99.88	-1,062.1	-1,193.8	611.8	555.4	56.35	10.856			
8,200.0	6,551.0	8,397.1	6,657.0	30.9	35.3	99.88	-1,162.1	-1,193.7	612.0	552.5	59.47	10.290			
8,300.0	6,551.0	8,497.1	6,657.0	32.5	36.7	99.88	-1,262.1	-1,193.6	612.2	549.6	62.67	9.769			
8,400.0	6,551.0	8,597.1	6,657.0	34.1	38.2	99.87	-1,362.1	-1,193.5	612.5	546.6	65.93	9.290			
8,500.0	6,551.0	8,697.1	6,657.0	35.8	39.7	99.87	-1,462.1	-1,193.4	612.7	543.5	69.25	8.848			
8,600.0	6,551.0	8,797.1	6,657.0	37.5	41.2	99.86	-1,562.1	-1,193.3	613.0	540.4	72.61	8.442			
8,700.0	6,551.0	8,897.1	6,657.0	39.2	42.8	99.86	-1,662.1	-1,193.2	613.2	537.2	76.01	8.067			
8,800.0	6,551.0	8,997.1	6,657.0	40.9	44.4	99.86	-1,762.1	-1,193.1	613.4	534.0	79.45	7.721			
8,900.0	6,551.0	9,097.1	6,657.0	42.7	46.0	99.85	-1,862.1	-1,193.0	613.7	530.8	82.92	7.401			
9,000.0	6,551.0	9,197.1	6,657.0	44.4	47.7	99.85	-1,962.1	-1,192.9	613.9	527.5	86.42	7.104			
9,100.0	6,551.0	9,297.1	6,657.0	46.2	49.4	99.84	-2,062.1	-1,192.8	614.2	524.2	89.94	6.828			
9,200.0	6,551.0	9,397.1	6,657.0	48.0	51.0	99.84	-2,162.1	-1,192.7	614.4	520.9	93.48	6.572			
9,300.0	6,551.0	9,497.1	6,657.0	49.8	52.8	99.84	-2,262.1	-1,192.6	614.6	517.6	97.05	6.333			
9,400.0	6,551.0	9,597.1	6,657.0	51.6	54.5	99.83	-2,362.1	-1,192.5	614.9	514.2	100.63	6.110			
9,500.0	6,551.0	9,697.1	6,657.0	53.4	56.2	99.83	-2,462.1	-1,192.4	615.1	510.9	104.22	5.902			
9,600.0	6,551.0	9,797.1	6,657.0	55.2	58.0	99.82	-2,562.1	-1,192.3	615.3	507.5	107.83	5.706			
9,700.0	6,551.0	9,897.1	6,657.0	57.0	59.7	99.82	-2,662.1	-1,192.2	615.6	504.1	111.46	5.523			
9,800.0	6,551.0	9,997.1	6,657.0	58.9	61.5	99.82	-2,762.1	-1,192.1	615.8	500.7	115.09	5.351			
9,900.0	6,551.0	10,097.1	6,657.0	60.7	63.3	99.81	-2,862.1	-1,192.0	616.1	497.3	118.73	5.189			
10,000.0	6,551.0	10,197.1	6,657.0	62.5	65.0	99.81	-2,962.1	-1,191.9	616.3	493.9	122.39	5.036			
10,100.0	6,551.0	10,297.1	6,657.0	64.4	66.8	99.81	-3,062.1	-1,191.8	616.5	490.5	126.05	4.891			
10,200.0	6,551.0	10,397.1	6,657.0	66.2	68.6	99.80	-3,162.1	-1,191.7	616.8	487.1	129.72	4.755			

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> North Platte F-22 Pad Sec.22-T5N-R63W - North Platte Federal A-E-22HC - Wellbore #1 - Plan #1 (11-													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD													<b>Offset Well Error:</b>	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		
10,300.0	6,551.0	10,497.1	6,657.0	68.1	70.4	99.80	-3,262.1	-1,191.6	617.0	483.6	133.39	4.625		
10,400.0	6,551.0	10,597.1	6,657.0	69.9	72.2	99.79	-3,362.1	-1,191.5	617.2	480.2	137.08	4.503		
10,500.0	6,551.0	10,697.1	6,657.0	71.8	74.1	99.79	-3,462.1	-1,191.4	617.5	476.7	140.77	4.387		
10,600.0	6,551.0	10,797.1	6,657.0	73.7	75.9	99.79	-3,562.1	-1,191.3	617.7	473.3	144.46	4.276		
10,700.0	6,551.0	10,897.1	6,657.0	75.5	77.7	99.78	-3,662.1	-1,191.2	618.0	469.8	148.16	4.171		
10,800.0	6,551.0	10,997.1	6,657.0	77.4	79.5	99.78	-3,762.1	-1,191.1	618.2	466.3	151.87	4.071		
10,900.0	6,551.0	11,097.1	6,657.0	79.3	81.4	99.78	-3,862.1	-1,191.0	618.4	462.9	155.58	3.975		
11,000.0	6,551.0	11,197.1	6,657.0	81.1	83.2	99.77	-3,962.1	-1,190.9	618.7	459.4	159.29	3.884		
11,100.0	6,551.0	11,297.1	6,657.0	83.0	85.0	99.77	-4,062.1	-1,190.8	618.9	455.9	163.01	3.797		
11,135.4	6,551.0	11,332.6	6,657.0	83.7	85.7	99.77	-4,097.5	-1,190.8	619.0	454.7	164.33	3.767		
11,182.5	6,551.0	11,371.4	6,657.0	84.6	86.4	99.76	-4,136.3	-1,190.8	619.2	453.2	165.93	3.732 SF		



<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design North Platte F-22 Pad Sec.22-T5N-R63W - North Platte Federal F11-J14-22HNB - Wellbore #1 - Plan #													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
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)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	3.0	3.0	0.0	0.0	179.60	-40.1	0.3	40.1	40.1	0.00	N/A		
100.0	100.0	103.0	103.0	0.1	0.1	179.60	-40.1	0.3	40.1	39.8	0.23	173.087		
200.0	200.0	203.0	203.0	0.3	0.3	179.60	-40.1	0.3	40.1	39.4	0.68	58.838		
300.0	300.0	303.0	303.0	0.6	0.6	179.60	-40.1	0.3	40.1	38.9	1.13	35.443		
400.0	400.0	403.0	403.0	0.8	0.8	179.60	-40.1	0.3	40.1	38.5	1.58	25.360		
500.0	500.0	503.0	503.0	1.0	1.0	179.60	-40.1	0.3	40.1	38.0	2.03	19.743		
600.0	600.0	603.0	603.0	1.2	1.2	179.60	-40.1	0.3	40.1	37.6	2.48	16.163		
700.0	700.0	703.0	703.0	1.5	1.5	179.60	-40.1	0.3	40.1	37.1	2.93	13.682		
800.0	800.0	803.0	803.0	1.7	1.7	179.60	-40.1	0.3	40.1	36.7	3.38	11.862 CC, ES		
900.0	900.0	903.0	903.0	1.9	1.9	-139.51	-40.1	0.3	41.4	37.6	3.82	10.819		
1,000.0	999.8	1,002.8	1,002.8	2.1	2.1	-143.75	-40.1	0.3	45.5	41.2	4.27	10.653		
1,100.0	1,099.5	1,102.5	1,102.5	2.4	2.4	-149.27	-40.1	0.3	52.8	48.1	4.72	11.191		
1,200.0	1,198.7	1,201.7	1,201.7	2.6	2.6	-154.79	-40.1	0.3	63.6	58.4	5.16	12.319		
1,300.0	1,297.5	1,300.5	1,300.5	2.9	2.8	-159.58	-40.1	0.3	78.0	72.4	5.60	13.932		
1,400.0	1,395.7	1,398.7	1,398.7	3.2	3.0	-163.42	-40.1	0.3	95.8	89.7	6.05	15.839		
1,500.0	1,493.9	1,496.9	1,496.9	3.6	3.3	-166.15	-40.1	0.3	114.2	107.7	6.50	17.565		
1,600.0	1,592.0	1,595.0	1,595.0	3.9	3.5	-168.12	-40.1	0.3	132.8	125.8	6.96	19.083		
1,700.0	1,690.2	1,698.2	1,698.2	4.3	3.7	-169.81	-38.5	-0.3	150.0	142.5	7.43	20.197		
1,800.0	1,788.4	1,802.8	1,802.6	4.7	3.9	-171.47	-33.3	-2.2	163.8	155.9	7.89	20.750		
1,900.0	1,886.5	1,908.1	1,907.5	5.1	4.2	-173.22	-24.5	-5.3	174.2	165.8	8.36	20.822		
2,000.0	1,984.7	2,014.0	2,012.6	5.5	4.4	-175.13	-12.0	-9.9	181.2	172.3	8.84	20.492		
2,100.0	2,082.9	2,120.2	2,117.3	5.9	4.7	-177.29	4.2	-15.7	184.9	175.6	9.33	19.825		
2,200.0	2,181.0	2,223.0	2,218.2	6.3	5.0	-179.67	23.0	-22.5	185.8	176.0	9.81	18.934		
2,300.0	2,279.2	2,322.7	2,315.9	6.7	5.3	178.00	41.5	-29.2	186.7	176.4	10.31	18.107		
2,400.0	2,377.3	2,422.4	2,413.6	7.1	5.6	175.69	60.1	-35.9	187.9	177.0	10.82	17.360		
2,500.0	2,475.5	2,522.1	2,511.4	7.5	6.0	173.41	78.7	-42.6	189.3	178.0	11.35	16.676		
2,600.0	2,573.7	2,621.8	2,609.1	7.9	6.3	171.18	97.3	-49.3	191.1	179.2	11.91	16.049		
2,700.0	2,671.8	2,721.5	2,706.8	8.3	6.7	168.98	115.8	-56.0	193.2	180.7	12.48	15.473		
2,800.0	2,770.0	2,821.2	2,804.6	8.7	7.0	166.84	134.4	-62.7	195.5	182.4	13.08	14.942		
2,900.0	2,868.2	2,920.9	2,902.3	9.1	7.4	164.75	153.0	-69.5	198.1	184.4	13.71	14.452		
3,000.0	2,966.3	3,020.6	3,000.0	9.5	7.8	162.71	171.5	-76.2	201.0	186.6	14.36	13.998		
3,100.0	3,064.5	3,120.3	3,097.8	10.0	8.2	160.74	190.1	-82.9	204.1	189.1	15.03	13.579		
3,200.0	3,162.7	3,220.0	3,195.5	10.4	8.6	158.82	208.7	-89.6	207.4	191.7	15.73	13.191		
3,300.0	3,260.8	3,319.7	3,293.2	10.8	9.0	156.97	227.3	-96.3	211.0	194.6	16.44	12.833		
3,400.0	3,359.0	3,419.5	3,390.9	11.2	9.4	155.18	245.8	-103.0	214.8	197.6	17.18	12.503		
3,500.0	3,457.1	3,519.2	3,488.7	11.6	9.8	153.46	264.4	-109.7	218.8	200.8	17.94	12.198		
3,600.0	3,555.3	3,618.9	3,586.4	12.1	10.2	151.79	283.0	-116.4	223.0	204.3	18.71	11.917		
3,700.0	3,653.5	3,718.6	3,684.1	12.5	10.6	150.19	301.6	-123.1	227.3	207.8	19.50	11.659		
3,800.0	3,751.6	3,818.3	3,781.9	12.9	11.0	148.65	320.1	-129.8	231.9	211.6	20.30	11.421		
3,900.0	3,849.8	3,918.0	3,879.6	13.3	11.4	147.18	338.7	-136.6	236.5	215.4	21.12	11.202		
4,000.0	3,948.0	4,017.7	3,977.3	13.7	11.8	145.75	357.3	-143.3	241.4	219.4	21.94	11.001		
4,100.0	4,046.1	4,117.4	4,075.1	14.2	12.2	144.39	375.9	-150.0	246.4	223.6	22.78	10.816		
4,200.0	4,144.3	4,217.1	4,172.8	14.6	12.6	143.08	394.4	-156.7	251.5	227.9	23.63	10.646		
4,300.0	4,242.5	4,316.8	4,270.5	15.0	13.0	141.82	413.0	-163.4	256.7	232.3	24.48	10.489		
4,400.0	4,340.6	4,416.5	4,368.3	15.4	13.4	140.62	431.6	-170.1	262.1	236.8	25.34	10.345		
4,500.0	4,438.8	4,516.2	4,466.0	15.8	13.8	139.46	450.2	-176.8	267.6	241.4	26.20	10.213		
4,600.0	4,536.9	4,615.9	4,563.7	16.3	14.3	138.35	468.7	-183.5	273.2	246.1	27.07	10.092		
4,700.0	4,635.1	4,715.6	4,661.4	16.7	14.7	137.28	487.3	-190.2	278.9	250.9	27.94	9.980		
4,800.0	4,733.3	4,815.3	4,759.2	17.1	15.1	136.26	505.9	-196.9	284.6	255.8	28.82	9.877		
4,900.0	4,831.4	4,915.0	4,856.9	17.5	15.5	135.28	524.5	-203.6	290.5	260.8	29.70	9.782		
5,000.0	4,929.6	5,014.8	4,954.6	18.0	15.9	134.33	543.0	-210.4	296.4	265.9	30.58	9.694		
5,100.0	5,027.8	5,114.5	5,052.4	18.4	16.4	133.43	561.6	-217.1	302.5	271.0	31.46	9.614		

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

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0ft
Survey Program: 0-MWD												Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,200.0	5,125.9	5,214.2	5,150.1	18.8	16.8	132.56	580.2	-223.8	308.5	276.2	32.34	9.539	
5,300.0	5,224.1	5,313.3	5,247.3	19.2	17.2	131.73	598.6	-230.4	314.7	281.5	33.21	9.476	
5,400.0	5,322.3	5,409.5	5,342.0	19.6	17.5	131.31	614.6	-236.2	321.7	287.7	33.93	9.481	
5,500.0	5,420.6	5,505.7	5,437.2	20.0	17.7	131.42	627.5	-240.9	329.2	294.6	34.52	9.535	
5,600.0	5,519.4	5,600.0	5,530.9	20.3	18.0	131.65	637.3	-244.4	335.6	300.6	34.99	9.591	
5,700.0	5,618.8	5,697.9	5,628.5	20.5	18.2	131.96	644.4	-247.0	340.8	305.4	35.38	9.633	
5,800.0	5,718.4	5,794.0	5,724.5	20.8	18.3	132.33	648.3	-248.4	344.7	309.1	35.67	9.664	
5,900.0	5,818.3	5,890.8	5,821.3	20.9	18.5	132.76	649.2	-248.7	347.5	311.6	35.89	9.682	
6,000.0	5,918.3	5,990.8	5,921.3	21.0	18.6	90.42	649.2	-248.7	348.3	312.2	36.11	9.646	
6,100.0	6,018.3	6,089.6	6,019.8	21.2	18.7	-88.43	643.3	-248.7	348.4	312.2	36.20	9.625	
6,200.0	6,117.4	6,185.8	6,113.0	21.2	18.6	-86.46	620.1	-248.6	349.0	313.2	35.76	9.759	
6,300.0	6,212.3	6,280.1	6,198.8	21.0	18.3	-84.63	581.1	-248.4	349.9	314.9	35.04	9.986	
6,400.0	6,299.6	6,372.8	6,274.8	20.8	18.0	-83.01	528.4	-248.1	351.1	317.0	34.17	10.277	
6,500.0	6,376.1	6,464.0	6,339.4	20.4	17.6	-81.64	464.1	-247.8	352.4	319.1	33.25	10.598	
6,600.0	6,438.8	6,554.3	6,391.4	20.0	17.2	-80.56	390.5	-247.4	353.5	321.1	32.41	10.909	
6,700.0	6,485.6	6,643.7	6,429.5	19.6	16.8	-79.80	309.7	-247.0	354.5	322.7	31.76	11.160	
6,800.0	6,515.7	6,737.7	6,456.0	19.2	16.5	-79.49	219.6	-246.5	355.0	323.6	31.40	11.305	
6,900.0	6,540.6	6,832.6	6,479.1	18.8	16.3	-79.38	127.5	-246.0	355.3	324.0	31.34	11.338	
7,000.0	6,551.0	6,921.4	6,487.9	18.5	16.3	-79.30	39.3	-245.5	355.5	323.9	31.69	11.221	
7,100.0	6,551.0	7,020.4	6,488.0	18.3	16.5	-79.31	-59.7	-245.0	355.7	323.4	32.34	10.999	
7,200.0	6,551.0	7,120.4	6,488.0	18.2	17.0	-79.31	-159.7	-244.5	355.9	322.5	33.40	10.657	
7,300.0	6,551.0	7,220.4	6,488.0	18.8	17.7	-79.32	-259.7	-244.0	356.1	321.2	34.83	10.222	
7,400.0	6,551.0	7,320.4	6,488.0	19.8	18.6	-79.32	-359.7	-243.5	356.2	319.6	36.61	9.731	
7,500.0	6,551.0	7,420.4	6,488.0	20.9	19.7	-79.33	-459.7	-242.9	356.4	317.7	38.67	9.216	
7,600.0	6,551.0	7,520.4	6,488.0	22.1	20.8	-79.33	-559.7	-242.4	356.6	315.6	40.99	8.700	
7,700.0	6,551.0	7,620.4	6,488.0	23.4	22.1	-79.34	-659.7	-241.9	356.8	313.3	43.51	8.200	
7,800.0	6,551.0	7,720.4	6,488.0	24.8	23.5	-79.34	-759.7	-241.4	357.0	310.8	46.20	7.726	
7,900.0	6,551.0	7,820.4	6,488.0	26.3	25.0	-79.35	-859.7	-240.9	357.1	308.1	49.04	7.282	
8,000.0	6,551.0	7,920.4	6,488.0	27.8	26.5	-79.36	-959.7	-240.3	357.3	305.3	52.00	6.871	
8,100.0	6,551.0	8,020.4	6,488.0	29.3	28.0	-79.36	-1,059.7	-239.8	357.5	302.4	55.07	6.492	
8,200.0	6,551.0	8,120.4	6,488.0	30.9	29.6	-79.37	-1,159.7	-239.3	357.7	299.4	58.21	6.144	
8,300.0	6,551.0	8,220.4	6,488.0	32.5	31.2	-79.37	-1,259.7	-238.8	357.8	296.4	61.44	5.824	
8,400.0	6,551.0	8,320.4	6,488.0	34.1	32.9	-79.38	-1,359.7	-238.3	358.0	293.3	64.72	5.532	
8,500.0	6,551.0	8,420.4	6,488.0	35.8	34.6	-79.38	-1,459.7	-237.7	358.2	290.1	68.06	5.263	
8,600.0	6,551.0	8,520.4	6,488.0	37.5	36.3	-79.39	-1,559.7	-237.2	358.4	286.9	71.44	5.016	
8,700.0	6,551.0	8,620.4	6,488.0	39.2	38.0	-79.39	-1,659.7	-236.7	358.5	283.7	74.86	4.790	
8,800.0	6,551.0	8,720.4	6,488.0	40.9	39.8	-79.40	-1,759.7	-236.2	358.7	280.4	78.31	4.581	
8,900.0	6,551.0	8,820.4	6,488.0	42.7	41.5	-79.40	-1,859.7	-235.6	358.9	277.1	81.80	4.388	
9,000.0	6,551.0	8,920.4	6,488.0	44.4	43.3	-79.41	-1,959.7	-235.1	359.1	273.8	85.31	4.209	
9,100.0	6,551.0	9,020.4	6,488.0	46.2	45.1	-79.41	-2,059.7	-234.6	359.2	270.4	88.84	4.044	
9,200.0	6,551.0	9,120.4	6,488.0	48.0	46.9	-79.42	-2,159.7	-234.1	359.4	267.0	92.40	3.890	
9,300.0	6,551.0	9,220.4	6,488.0	49.8	48.7	-79.42	-2,259.7	-233.6	359.6	263.6	95.97	3.747	
9,400.0	6,551.0	9,320.4	6,488.0	51.6	50.5	-79.43	-2,359.7	-233.0	359.8	260.2	99.56	3.614	
9,500.0	6,551.0	9,420.4	6,488.0	53.4	52.4	-79.43	-2,459.7	-232.5	360.0	256.8	103.17	3.489	
9,600.0	6,551.0	9,520.4	6,488.0	55.2	54.2	-79.44	-2,559.7	-232.0	360.1	253.3	106.78	3.373	
9,700.0	6,551.0	9,620.4	6,488.0	57.0	56.0	-79.45	-2,659.7	-231.5	360.3	249.9	110.41	3.263	
9,800.0	6,551.0	9,720.4	6,488.0	58.9	57.9	-79.45	-2,759.7	-231.0	360.5	246.4	114.05	3.161	
9,900.0	6,551.0	9,820.4	6,488.0	60.7	59.7	-79.46	-2,859.7	-230.4	360.7	243.0	117.70	3.064	
10,000.0	6,551.0	9,920.4	6,488.0	62.5	61.6	-79.46	-2,959.7	-229.9	360.8	239.5	121.36	2.973	
10,100.0	6,551.0	10,020.4	6,488.0	64.4	63.4	-79.47	-3,059.7	-229.4	361.0	236.0	125.02	2.888	
10,200.0	6,551.0	10,120.4	6,488.0	66.2	65.3	-79.47	-3,159.7	-228.9	361.2	232.5	128.70	2.806	
10,300.0	6,551.0	10,220.4	6,488.0	68.1	67.2	-79.48	-3,259.7	-228.4	361.4	229.0	132.38	2.730	

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



<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> North Platte F-22 Pad Sec.22-T5N-R63W - North Platte Federal F11-J14-22HNB - Wellbore #1 - Plan #												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	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	
10,400.0	6,551.0	10,320.4	6,488.0	69.9	69.0	-79.48	-3,359.7	-227.8	361.5	225.5	136.07	2.657	
10,500.0	6,551.0	10,420.4	6,488.0	71.8	70.9	-79.49	-3,459.7	-227.3	361.7	222.0	139.76	2.588	
10,600.0	6,551.0	10,520.4	6,488.0	73.7	72.8	-79.49	-3,559.7	-226.8	361.9	218.4	143.46	2.523	
10,700.0	6,551.0	10,620.4	6,488.0	75.5	74.6	-79.50	-3,659.7	-226.3	362.1	214.9	147.16	2.460	
10,800.0	6,551.0	10,720.4	6,488.0	77.4	76.5	-79.50	-3,759.7	-225.7	362.2	211.4	150.87	2.401	
10,900.0	6,551.0	10,820.4	6,488.0	79.3	78.4	-79.51	-3,859.7	-225.2	362.4	207.8	154.58	2.345	
11,000.0	6,551.0	10,920.4	6,488.0	81.1	80.3	-79.51	-3,959.7	-224.7	362.6	204.3	158.29	2.291	
11,100.0	6,551.0	11,020.4	6,488.0	83.0	82.2	-79.52	-4,059.7	-224.2	362.8	200.8	162.01	2.239	
11,182.5	6,551.0	11,102.9	6,488.0	84.6	83.7	-79.52	-4,142.2	-223.8	362.9	197.8	165.08	2.198 SF	

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design North Platte F-22 Pad Sec.22-T5N-R63W - North Platte Federal F21-J24-22HNB - Wellbore #1 - Plan #													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 (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	1.0	1.0	0.0	0.0	-180.00	-20.0	0.0	20.0	20.0	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	-180.00	-20.0	0.0	20.0	19.8	0.23	88.246		
200.0	200.0	201.0	201.0	0.3	0.3	-180.00	-20.0	0.0	20.0	19.4	0.68	29.611		
300.0	300.0	301.0	301.0	0.6	0.6	-180.00	-20.0	0.0	20.0	18.9	1.13	17.790		
400.0	400.0	401.0	401.0	0.8	0.8	-180.00	-20.0	0.0	20.0	18.5	1.58	12.714		
500.0	500.0	501.0	501.0	1.0	1.0	-180.00	-20.0	0.0	20.0	18.0	2.03	9.892		
600.0	600.0	601.0	601.0	1.2	1.2	-180.00	-20.0	0.0	20.0	17.6	2.47	8.095		
700.0	700.0	701.0	701.0	1.5	1.5	-180.00	-20.0	0.0	20.0	17.1	2.92	6.851		
800.0	800.0	801.0	801.0	1.7	1.7	-180.00	-20.0	0.0	20.0	16.7	3.37	5.938 CC, ES		
900.0	900.0	901.0	901.0	1.9	1.9	-140.66	-20.0	0.0	21.4	17.5	3.82	5.589 SF		
1,000.0	999.8	1,000.8	1,000.8	2.1	2.1	-148.05	-20.0	0.0	25.6	21.4	4.27	6.006		
1,100.0	1,099.5	1,100.5	1,100.5	2.4	2.4	-155.94	-20.0	0.0	33.3	28.6	4.71	7.079		
1,200.0	1,198.7	1,199.7	1,199.7	2.6	2.6	-162.24	-20.0	0.0	44.7	39.6	5.15	8.691		
1,300.0	1,297.5	1,298.5	1,298.5	2.9	2.8	-166.74	-20.0	0.0	59.8	54.3	5.58	10.717		
1,400.0	1,395.7	1,396.7	1,396.7	3.2	3.0	-169.84	-20.0	0.0	78.1	72.1	6.02	12.967		
1,500.0	1,493.9	1,496.2	1,496.2	3.6	3.2	-172.74	-18.6	0.8	96.3	89.8	6.48	14.872		
1,600.0	1,592.0	1,595.9	1,595.8	3.9	3.5	-176.34	-14.3	3.4	113.4	106.5	6.92	16.374		
1,700.0	1,690.2	1,695.6	1,695.0	4.3	3.7	179.54	-6.9	7.7	129.8	122.4	7.38	17.575		
1,800.0	1,788.4	1,794.9	1,793.6	4.7	3.9	175.04	3.4	13.8	145.9	138.0	7.86	18.556		
1,900.0	1,886.5	1,893.6	1,891.2	5.1	4.2	170.27	16.6	21.5	162.2	153.8	8.37	19.370		
2,000.0	1,984.7	1,991.6	1,987.4	5.5	4.5	165.37	32.4	30.8	179.2	170.2	8.93	20.064		
2,100.0	2,082.9	2,088.9	2,082.8	5.9	4.8	161.06	48.9	40.5	197.3	187.7	9.53	20.699		
2,200.0	2,181.0	2,186.2	2,178.2	6.3	5.1	157.49	65.5	50.2	216.3	206.1	10.16	21.291		
2,300.0	2,279.2	2,283.6	2,273.7	6.7	5.4	154.49	82.0	59.9	236.0	225.2	10.81	21.831		
2,400.0	2,377.3	2,380.9	2,369.1	7.1	5.8	151.95	98.6	69.6	256.2	244.7	11.47	22.329		
2,500.0	2,475.5	2,478.3	2,464.5	7.5	6.1	149.78	115.1	79.4	276.9	264.7	12.15	22.782		
2,600.0	2,573.7	2,575.6	2,560.0	7.9	6.5	147.92	131.7	89.1	297.9	285.0	12.84	23.196		
2,700.0	2,671.8	2,673.0	2,655.4	8.3	6.8	146.30	148.2	98.8	319.1	305.6	13.54	23.575		
2,800.0	2,770.0	2,770.3	2,750.8	8.7	7.2	144.88	164.8	108.5	340.6	326.3	14.24	23.923		
2,900.0	2,868.2	2,867.6	2,846.3	9.1	7.6	143.63	181.3	118.2	362.2	347.3	14.94	24.243		
3,000.0	2,966.3	2,965.0	2,941.7	9.5	8.0	142.52	197.9	128.0	384.0	368.3	15.65	24.537		
3,100.0	3,064.5	3,062.3	3,037.1	10.0	8.3	141.53	214.4	137.7	405.9	389.5	16.36	24.809		
3,200.0	3,162.7	3,159.7	3,132.6	10.4	8.7	140.64	231.0	147.4	427.9	410.8	17.07	25.060		
3,300.0	3,260.8	3,257.0	3,228.0	10.8	9.1	139.83	247.5	157.1	450.0	432.2	17.79	25.294		
3,400.0	3,359.0	3,354.3	3,323.4	11.2	9.5	139.10	264.1	166.8	472.2	453.7	18.51	25.511		
3,500.0	3,457.1	3,451.7	3,418.8	11.6	9.9	138.44	280.6	176.6	494.4	475.2	19.23	25.713		
3,600.0	3,555.3	3,549.0	3,514.3	12.1	10.3	137.84	297.2	186.3	516.7	496.8	19.95	25.902		
3,700.0	3,653.5	3,646.4	3,609.7	12.5	10.7	137.28	313.8	196.0	539.1	518.4	20.67	26.079		
3,800.0	3,751.6	3,743.7	3,705.1	12.9	11.1	136.77	330.3	205.7	561.5	540.1	21.39	26.244		
3,900.0	3,849.8	3,841.1	3,800.6	13.3	11.5	136.30	346.9	215.4	583.9	561.8	22.12	26.400		
4,000.0	3,948.0	3,938.4	3,896.0	13.7	11.9	135.86	363.4	225.1	606.4	583.5	22.84	26.546		
4,100.0	4,046.1	4,035.7	3,991.4	14.2	12.3	135.45	380.0	234.9	628.9	605.3	23.57	26.684		
4,200.0	4,144.3	4,133.1	4,086.9	14.6	12.7	135.07	396.5	244.6	651.4	627.1	24.29	26.814		
4,300.0	4,242.5	4,230.4	4,182.3	15.0	13.1	134.72	413.1	254.3	674.0	648.9	25.02	26.936		
4,400.0	4,340.6	4,327.8	4,277.7	15.4	13.5	134.39	429.6	264.0	696.5	670.8	25.75	27.053		
4,500.0	4,438.8	4,425.1	4,373.2	15.8	13.9	134.08	446.2	273.7	719.1	692.7	26.47	27.163		
4,600.0	4,536.9	4,522.5	4,468.6	16.3	14.3	133.79	462.7	283.5	741.7	714.5	27.20	27.267		
4,700.0	4,635.1	4,619.8	4,564.0	16.7	14.7	133.52	479.3	293.2	764.4	736.5	27.93	27.367		
4,800.0	4,733.3	4,717.1	4,659.4	17.1	15.1	133.26	495.8	302.9	787.0	758.4	28.66	27.461		
4,900.0	4,831.4	4,814.5	4,754.9	17.5	15.6	133.02	512.4	312.6	809.7	780.3	29.39	27.551		
5,000.0	4,929.6	4,911.8	4,850.3	18.0	16.0	132.79	528.9	322.3	832.4	802.3	30.12	27.637		
5,100.0	5,027.8	5,009.2	4,945.7	18.4	16.4	132.57	545.5	332.1	855.1	824.2	30.85	27.718		

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

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design										North Platte F-22 Pad Sec.22-T5N-R63W - North Platte Federal F21-J24-22HNB - Wellbore #1 - Plan #				Offset Site Error:		0.0 ft
Survey Program: 0-MWD												Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis		Distance								Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
5,200.0	5,125.9	5,106.5	5,041.2	18.8	16.8	132.36	562.0	341.8	877.8	846.2	31.58	27.796				
5,300.0	5,224.1	5,203.8	5,136.6	19.2	17.2	132.17	578.6	351.5	900.5	868.2	32.31	27.871				
5,400.0	5,322.3	5,301.2	5,232.0	19.6	17.6	131.98	595.1	361.2	923.2	890.1	33.04	27.942				
5,500.0	5,420.6	5,417.4	5,346.4	20.0	18.0	132.06	613.0	371.7	944.5	910.7	33.78	27.959				
5,600.0	5,519.4	5,535.7	5,463.6	20.3	18.3	132.26	627.1	380.0	961.5	927.1	34.39	27.962				
5,700.0	5,618.8	5,655.3	5,582.5	20.5	18.6	132.46	637.0	385.8	974.2	939.3	34.91	27.906				
5,800.0	5,718.4	5,775.6	5,702.7	20.8	18.8	132.66	642.7	389.2	982.4	947.1	35.34	27.796				
5,900.0	5,818.3	5,892.3	5,819.3	20.9	19.0	132.87	644.2	390.0	986.2	950.5	35.69	27.635				
6,000.0	5,918.3	5,992.2	5,919.3	21.0	19.1	90.44	644.2	390.0	987.0	951.1	35.97	27.440				
6,100.0	6,018.3	6,089.4	6,016.2	21.2	19.2	-89.04	638.5	390.0	987.1	950.9	36.19	27.278				
6,200.0	6,117.4	6,183.9	6,107.8	21.2	19.1	-88.36	616.1	390.2	987.5	951.4	36.06	27.382				
6,300.0	6,212.3	6,276.6	6,192.4	21.0	18.9	-87.74	578.5	390.5	988.0	952.4	35.63	27.733				
6,400.0	6,299.6	6,367.8	6,267.9	20.8	18.6	-87.21	527.4	390.9	988.7	953.7	34.96	28.283				
6,500.0	6,376.1	6,458.0	6,332.6	20.4	18.2	-86.77	464.8	391.4	989.3	955.2	34.16	28.964				
6,600.0	6,438.8	6,550.0	6,386.5	20.0	17.8	-86.43	390.3	392.0	990.0	956.7	33.34	29.694				
6,700.0	6,485.6	6,636.0	6,424.3	19.6	17.4	-86.22	313.2	392.6	990.6	957.9	32.67	30.318				
6,800.0	6,515.7	6,728.5	6,451.3	19.2	17.0	-86.15	224.8	393.3	991.1	958.8	32.24	30.742				
6,900.0	6,540.6	6,824.6	6,475.3	18.8	16.7	-86.13	131.8	394.0	991.5	959.3	32.14	30.851				
7,000.0	6,551.0	6,913.1	6,485.7	18.5	16.4	-86.17	44.0	394.7	991.8	959.4	32.41	30.598				
7,100.0	6,551.0	7,010.9	6,486.0	18.3	16.3	-86.19	-53.8	395.4	992.2	959.1	33.09	29.989				
7,200.0	6,551.0	7,110.9	6,486.0	18.2	16.8	-86.19	-153.8	396.2	992.7	958.5	34.17	29.047				
7,300.0	6,551.0	7,210.9	6,486.0	18.8	17.7	-86.19	-253.8	397.0	993.1	957.5	35.65	27.860				
7,400.0	6,551.0	7,310.9	6,486.0	19.8	18.6	-86.19	-353.8	397.8	993.5	956.1	37.45	26.527				
7,500.0	6,551.0	7,410.9	6,486.0	20.9	19.8	-86.19	-453.8	398.6	994.0	954.4	39.55	25.130				
7,600.0	6,551.0	7,510.9	6,486.0	22.1	21.0	-86.19	-553.8	399.3	994.4	952.5	41.90	23.732				
7,700.0	6,551.0	7,610.9	6,486.0	23.4	22.3	-86.20	-653.8	400.1	994.8	950.4	44.46	22.378				
7,800.0	6,551.0	7,710.9	6,486.0	24.8	23.7	-86.20	-753.8	400.9	995.3	948.1	47.19	21.093				
7,900.0	6,551.0	7,810.9	6,486.0	26.3	25.1	-86.20	-853.8	401.7	995.7	945.7	50.06	19.890				
8,000.0	6,551.0	7,910.9	6,486.0	27.8	26.6	-86.20	-953.8	402.4	996.2	943.1	53.06	18.774				
8,100.0	6,551.0	8,010.9	6,486.0	29.3	28.2	-86.20	-1,053.8	403.2	996.6	940.4	56.16	17.746				
8,200.0	6,551.0	8,110.9	6,486.0	30.9	29.8	-86.20	-1,153.8	404.0	997.0	937.7	59.35	16.800				
8,300.0	6,551.0	8,210.9	6,486.0	32.5	31.4	-86.21	-1,253.8	404.8	997.5	934.9	62.61	15.932				
8,400.0	6,551.0	8,310.9	6,486.0	34.1	33.1	-86.21	-1,353.8	405.6	997.9	932.0	65.93	15.136				
8,500.0	6,551.0	8,410.9	6,486.0	35.8	34.8	-86.21	-1,453.8	406.3	998.3	929.0	69.30	14.405				
8,600.0	6,551.0	8,510.9	6,486.0	37.5	36.5	-86.21	-1,553.8	407.1	998.8	926.0	72.73	13.733				
8,700.0	6,551.0	8,610.9	6,486.0	39.2	38.2	-86.21	-1,653.8	407.9	999.2	923.0	76.19	13.115				
8,800.0	6,551.0	8,710.9	6,486.0	40.9	39.9	-86.21	-1,753.8	408.7	999.6	920.0	79.69	12.545				

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design North Platte F-22 Pad Sec.22-T5N-R63W - North Platte Federal F-J-22HNC - Wellbore #1 - Plan #1 (11													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 (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	5.0	5.0	0.0	0.0	179.73	-60.1	0.3	60.1	60.1	0.01	N/A		
100.0	100.0	105.0	105.0	0.1	0.1	179.73	-60.1	0.3	60.1	59.9	0.24	254.707		
200.0	200.0	205.0	205.0	0.3	0.3	179.73	-60.1	0.3	60.1	59.4	0.69	87.686		
300.0	300.0	305.0	305.0	0.6	0.6	179.73	-60.1	0.3	60.1	59.0	1.14	52.959		
400.0	400.0	405.0	405.0	0.8	0.8	179.73	-60.1	0.3	60.1	58.5	1.58	37.935		
500.0	500.0	505.0	505.0	1.0	1.0	179.73	-60.1	0.3	60.1	58.1	2.03	29.552		
600.0	600.0	605.0	605.0	1.2	1.2	179.73	-60.1	0.3	60.1	57.6	2.48	24.203		
700.0	700.0	705.0	705.0	1.5	1.5	179.73	-60.1	0.3	60.1	57.2	2.93	20.494		
800.0	800.0	805.0	805.0	1.7	1.7	179.73	-60.1	0.3	60.1	56.7	3.38	17.770 CC, ES		
900.0	900.0	905.0	905.0	1.9	1.9	-138.86	-60.1	0.3	61.4	57.6	3.83	16.038		
1,000.0	999.8	1,004.8	1,004.8	2.1	2.1	-141.82	-60.1	0.3	65.4	61.2	4.27	15.310		
1,100.0	1,099.5	1,104.5	1,104.5	2.4	2.4	-146.00	-60.1	0.3	72.5	67.8	4.72	15.355		
1,200.0	1,198.7	1,203.7	1,203.7	2.6	2.6	-150.60	-60.1	0.3	82.9	77.7	5.17	16.038		
1,300.0	1,297.5	1,302.5	1,302.5	2.9	2.8	-155.02	-60.1	0.3	96.9	91.2	5.61	17.253		
1,400.0	1,395.7	1,400.7	1,400.7	3.2	3.0	-158.91	-60.1	0.3	114.1	108.0	6.06	18.813		
1,500.0	1,493.9	1,498.9	1,498.9	3.6	3.3	-161.88	-60.1	0.3	132.1	125.6	6.52	20.251		
1,600.0	1,592.0	1,597.0	1,597.0	3.9	3.5	-164.14	-60.1	0.3	150.4	143.4	6.98	21.532		
1,700.0	1,690.2	1,695.2	1,695.2	4.3	3.7	-165.91	-60.1	0.3	168.8	161.4	7.45	22.673		
1,800.0	1,788.4	1,793.4	1,793.4	4.7	3.9	-167.33	-60.1	0.3	187.4	179.5	7.91	23.692		
1,900.0	1,886.5	1,891.5	1,891.5	5.1	4.1	-168.49	-60.1	0.3	206.1	197.7	8.37	24.605		
2,000.0	1,984.7	1,989.7	1,989.7	5.5	4.4	-169.46	-60.1	0.3	224.8	216.0	8.84	25.427		
2,100.0	2,082.9	2,094.1	2,094.1	5.9	4.6	-170.56	-58.6	0.4	242.5	233.1	9.32	26.023		
2,200.0	2,181.0	2,199.9	2,199.7	6.3	4.8	-172.07	-53.2	1.0	257.4	247.6	9.79	26.294		
2,300.0	2,279.2	2,306.1	2,305.6	6.7	5.1	-173.96	-43.9	1.9	269.8	259.5	10.27	26.285		
2,400.0	2,377.3	2,412.6	2,411.2	7.1	5.3	-176.24	-30.6	3.2	279.8	269.0	10.74	26.039		
2,500.0	2,475.5	2,518.9	2,516.1	7.5	5.6	-178.91	-13.5	5.0	287.6	276.3	11.24	25.587		
2,600.0	2,573.7	2,623.8	2,618.9	7.9	5.9	178.04	7.2	7.0	293.5	281.7	11.75	24.968		
2,700.0	2,671.8	2,722.4	2,715.3	8.3	6.2	175.09	27.9	9.1	299.3	287.0	12.29	24.359		
2,800.0	2,770.0	2,821.1	2,811.7	8.7	6.5	172.26	48.6	11.2	306.0	293.1	12.86	23.796		
2,900.0	2,868.2	2,919.7	2,908.1	9.1	6.8	169.56	69.3	13.3	313.3	299.8	13.46	23.280		
3,000.0	2,966.3	3,018.3	3,004.5	9.5	7.1	166.98	90.1	15.4	321.3	307.2	14.09	22.805		
3,100.0	3,064.5	3,117.0	3,100.9	10.0	7.5	164.53	110.8	17.4	330.0	315.2	14.75	22.369		
3,200.0	3,162.7	3,215.6	3,197.3	10.4	7.8	162.20	131.5	19.5	339.2	323.8	15.44	21.968		
3,300.0	3,260.8	3,314.2	3,293.7	10.8	8.2	160.00	152.2	21.6	349.0	332.8	16.15	21.603		
3,400.0	3,359.0	3,412.9	3,390.2	11.2	8.6	157.92	172.9	23.7	359.2	342.3	16.89	21.269		
3,500.0	3,457.1	3,511.5	3,486.6	11.6	9.0	155.96	193.7	25.8	369.9	352.3	17.64	20.967		
3,600.0	3,555.3	3,610.1	3,583.0	12.1	9.3	154.10	214.4	27.9	381.0	362.6	18.41	20.694		
3,700.0	3,653.5	3,708.8	3,679.4	12.5	9.7	152.36	235.1	29.9	392.5	373.3	19.20	20.447		
3,800.0	3,751.6	3,807.4	3,775.8	12.9	10.1	150.71	255.8	32.0	404.4	384.4	19.99	20.226		
3,900.0	3,849.8	3,906.0	3,872.2	13.3	10.5	149.15	276.6	34.1	416.5	395.7	20.80	20.027		
4,000.0	3,948.0	4,004.7	3,968.6	13.7	10.9	147.69	297.3	36.2	429.0	407.4	21.61	19.849		
4,100.0	4,046.1	4,103.3	4,065.0	14.2	11.3	146.30	318.0	38.3	441.7	419.2	22.43	19.689		
4,200.0	4,144.3	4,201.9	4,161.4	14.6	11.7	145.00	338.7	40.3	454.6	431.4	23.26	19.547		
4,300.0	4,242.5	4,300.6	4,257.8	15.0	12.2	143.76	359.5	42.4	467.8	443.7	24.09	19.420		
4,400.0	4,340.6	4,399.2	4,354.3	15.4	12.6	142.60	380.2	44.5	481.2	456.2	24.92	19.307		
4,500.0	4,438.8	4,497.8	4,450.7	15.8	13.0	141.49	400.9	46.6	494.7	469.0	25.76	19.207		
4,600.0	4,536.9	4,596.5	4,547.1	16.3	13.4	140.45	421.6	48.7	508.5	481.9	26.60	19.118		
4,700.0	4,635.1	4,695.1	4,643.5	16.7	13.8	139.46	442.4	50.8	522.3	494.9	27.44	19.039		
4,800.0	4,733.3	4,793.7	4,739.9	17.1	14.2	138.52	463.1	52.8	536.4	508.1	28.28	18.969		
4,900.0	4,831.4	4,892.4	4,836.3	17.5	14.7	137.63	483.8	54.9	550.6	521.4	29.12	18.908		
5,000.0	4,929.6	4,991.0	4,932.7	18.0	15.1	136.78	504.5	57.0	564.8	534.9	29.96	18.853		
5,100.0	5,027.8	5,089.6	5,029.1	18.4	15.5	135.98	525.2	59.1	579.3	548.5	30.80	18.806		

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

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design North Platte F-22 Pad Sec.22-T5N-R63W - North Platte Federal F-J-22HNC - Wellbore #1 - Plan #1 (11													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.0	5,125.9	5,188.3	5,125.5	18.8	15.9	135.21	546.0	61.2	593.8	562.1	31.65	18.764		
5,300.0	5,224.1	5,286.9	5,221.9	19.2	16.4	134.48	566.7	63.2	608.4	575.9	32.49	18.727		
5,400.0	5,322.3	5,385.9	5,318.7	19.6	16.8	133.79	587.4	65.3	623.1	589.8	33.32	18.701		
5,500.0	5,420.6	5,486.3	5,417.4	20.0	17.1	133.43	606.0	67.2	637.2	603.1	34.04	18.720		
5,600.0	5,519.4	5,587.4	5,517.3	20.3	17.4	133.23	621.1	68.7	648.7	614.1	34.64	18.728		
5,700.0	5,618.8	5,688.9	5,618.1	20.5	17.6	133.07	632.9	69.9	657.6	622.5	35.16	18.704		
5,800.0	5,718.4	5,790.8	5,719.6	20.8	17.9	132.98	641.0	70.7	663.9	628.3	35.60	18.650		
5,900.0	5,818.3	5,892.9	5,821.6	20.9	18.0	132.93	645.6	71.2	667.4	631.5	35.95	18.567		
6,000.0	5,918.3	5,994.5	5,923.3	21.0	18.2	90.44	646.7	71.3	668.3	632.1	36.20	18.460		
6,066.2	5,984.5	6,060.8	5,989.5	21.1	18.3	-89.42	646.7	71.3	668.3	631.9	36.43	18.345		
6,100.0	6,018.3	6,094.3	6,023.1	21.2	18.3	-89.37	646.5	71.3	668.3	631.8	36.52	18.299		
6,200.0	6,117.4	6,192.5	6,120.4	21.2	18.3	-89.38	634.7	71.4	668.3	631.8	36.53	18.294		
6,300.0	6,212.3	6,290.8	6,213.9	21.0	18.2	-89.42	604.8	71.6	668.4	632.2	36.19	18.470		
6,400.0	6,299.6	6,389.3	6,300.2	20.8	17.8	-89.48	557.8	71.9	668.6	633.0	35.56	18.801		
6,500.0	6,376.1	6,487.9	6,376.4	20.4	17.4	-89.55	495.3	72.3	668.7	634.0	34.75	19.247		
6,600.0	6,438.8	6,586.7	6,439.5	20.0	16.9	-89.65	419.4	72.8	669.0	635.1	33.88	19.746		
6,700.0	6,485.6	6,685.9	6,487.2	19.6	16.5	-89.75	332.8	73.3	669.2	636.1	33.11	20.215		
6,800.0	6,515.7	6,785.4	6,518.3	19.2	16.2	-89.84	238.3	73.9	669.5	637.0	32.57	20.559		
6,900.0	6,540.6	6,885.3	6,543.7	18.8	16.0	-89.87	141.7	74.6	669.8	637.4	32.40	20.671		
7,000.0	6,551.0	6,985.1	6,555.8	18.5	16.1	-89.99	42.8	75.2	670.1	637.5	32.64	20.533		
7,100.0	6,551.0	7,085.1	6,556.0	18.3	16.4	-90.00	-57.2	75.9	670.4	637.2	33.27	20.149		
7,200.0	6,551.0	7,185.1	6,556.0	18.2	16.8	-90.00	-157.2	76.5	670.7	636.4	34.32	19.542		
7,300.0	6,551.0	7,285.1	6,556.0	18.8	17.5	-90.00	-257.2	77.2	671.1	635.3	35.76	18.766		
7,400.0	6,551.0	7,385.1	6,556.0	19.8	18.4	-90.00	-357.2	77.8	671.4	633.8	37.53	17.887		
7,500.0	6,551.0	7,485.1	6,556.0	20.9	19.4	-90.00	-457.2	78.5	671.7	632.1	39.61	16.959		
7,600.0	6,551.0	7,585.1	6,556.0	22.1	20.6	-90.00	-557.2	79.1	672.0	630.1	41.93	16.027		
7,700.0	6,551.0	7,685.1	6,556.0	23.4	21.8	-90.00	-657.2	79.8	672.3	627.8	44.46	15.121		
7,800.0	6,551.0	7,785.1	6,556.0	24.8	23.2	-90.00	-757.1	80.4	672.6	625.4	47.17	14.258		
7,900.0	6,551.0	7,885.1	6,556.0	26.3	24.6	-90.00	-857.1	81.1	672.9	622.9	50.04	13.449		
8,000.0	6,551.0	7,985.1	6,556.0	27.8	26.1	-90.00	-957.1	81.7	673.2	620.2	53.02	12.697		
8,100.0	6,551.0	8,085.1	6,556.0	29.3	27.6	-90.00	-1,057.1	82.4	673.5	617.4	56.11	12.003		
8,200.0	6,551.0	8,185.1	6,556.0	30.9	29.2	-90.00	-1,157.1	83.0	673.8	614.6	59.29	11.365		
8,300.0	6,551.0	8,285.1	6,556.0	32.5	30.8	-90.00	-1,257.1	83.7	674.2	611.6	62.55	10.779		
8,400.0	6,551.0	8,385.1	6,556.0	34.1	32.5	-90.00	-1,357.1	84.3	674.5	608.6	65.86	10.240		
8,500.0	6,551.0	8,485.1	6,556.0	35.8	34.2	-90.00	-1,457.1	85.0	674.8	605.5	69.24	9.746		
8,600.0	6,551.0	8,585.1	6,556.0	37.5	35.9	-90.00	-1,557.1	85.6	675.1	602.4	72.66	9.291		
8,700.0	6,551.0	8,685.1	6,556.0	39.2	37.6	-90.00	-1,657.1	86.3	675.4	599.3	76.12	8.873		
8,800.0	6,551.0	8,785.1	6,556.0	40.9	39.4	-90.00	-1,757.1	86.9	675.7	596.1	79.61	8.487		
8,900.0	6,551.0	8,885.1	6,556.0	42.7	41.1	-90.00	-1,857.1	87.6	676.0	592.9	83.14	8.131		
9,000.0	6,551.0	8,985.1	6,556.0	44.4	42.9	-90.00	-1,957.1	88.2	676.3	589.6	86.69	7.801		
9,100.0	6,551.0	9,085.1	6,556.0	46.2	44.7	-90.00	-2,057.1	88.9	676.6	586.4	90.27	7.495		
9,200.0	6,551.0	9,185.1	6,556.0	48.0	46.5	-90.00	-2,157.1	89.5	676.9	583.1	93.87	7.211		
9,300.0	6,551.0	9,285.1	6,556.0	49.8	48.3	-90.00	-2,257.1	90.2	677.3	579.8	97.49	6.947		
9,400.0	6,551.0	9,385.1	6,556.0	51.6	50.1	-90.00	-2,357.1	90.8	677.6	576.4	101.12	6.700		
9,500.0	6,551.0	9,485.1	6,556.0	53.4	52.0	-90.00	-2,457.1	91.5	677.9	573.1	104.77	6.470		
9,600.0	6,551.0	9,585.1	6,556.0	55.2	53.8	-90.00	-2,557.1	92.1	678.2	569.7	108.44	6.254		
9,700.0	6,551.0	9,685.1	6,556.0	57.0	55.6	-90.00	-2,657.1	92.8	678.5	566.4	112.11	6.052		
9,800.0	6,551.0	9,785.1	6,556.0	58.9	57.5	-90.00	-2,757.1	93.4	678.8	563.0	115.80	5.862		
9,900.0	6,551.0	9,885.1	6,556.0	60.7	59.3	-90.00	-2,857.1	94.1	679.1	559.6	119.50	5.683		
10,000.0	6,551.0	9,985.1	6,556.0	62.5	61.2	-90.00	-2,957.1	94.7	679.4	556.2	123.20	5.515		
10,100.0	6,551.0	10,085.1	6,556.0	64.4	63.0	-90.00	-3,057.1	95.4	679.7	552.8	126.92	5.356		
10,200.0	6,551.0	10,185.1	6,556.0	66.2	64.9	-90.00	-3,157.1	96.0	680.0	549.4	130.64	5.205		

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

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> North Platte F-22 Pad Sec.22-T5N-R63W - North Platte Federal F-J-22HNC - Wellbore #1 - Plan #1 (11												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	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
10,300.0	6,551.0	10,285.1	6,556.0	68.1	66.8	-90.00	-3,257.1	96.7	680.3	546.0	134.37	5.063	
10,400.0	6,551.0	10,385.1	6,556.0	69.9	68.6	-90.00	-3,357.1	97.3	680.7	542.6	138.10	4.929	
10,500.0	6,551.0	10,485.1	6,556.0	71.8	70.5	-90.00	-3,457.1	98.0	681.0	539.1	141.84	4.801	
10,600.0	6,551.0	10,585.1	6,556.0	73.7	72.4	-90.00	-3,557.1	98.7	681.3	535.7	145.59	4.679	
10,700.0	6,551.0	10,685.1	6,556.0	75.5	74.3	-90.00	-3,657.1	99.3	681.6	532.2	149.34	4.564	
10,800.0	6,551.0	10,785.1	6,556.0	77.4	76.1	-90.00	-3,757.1	100.0	681.9	528.8	153.10	4.454	
10,900.0	6,551.0	10,885.1	6,556.0	79.3	78.0	-90.00	-3,857.1	100.6	682.2	525.3	156.86	4.349	
11,000.0	6,551.0	10,985.1	6,556.0	81.1	79.9	-90.00	-3,957.1	101.3	682.5	521.9	160.62	4.249	
11,100.0	6,551.0	11,085.1	6,556.0	83.0	81.8	-90.00	-4,057.1	101.9	682.8	518.4	164.39	4.154	
11,182.5	6,551.0	11,167.6	6,556.0	84.6	83.3	-90.00	-4,139.6	102.4	683.1	515.6	167.51	4.078 SF	

Reference Depths are relative to WELL @ 4670.0ft (RKB - 13')  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: North Platte Federal 11-14-22HNC  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.69°



<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal 11-14-22HNC
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELL @ 4670.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal 11-14-22HNC	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (11-12-13)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4670.0ft (RKB - 13')  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: North Platte Federal 11-14-22HNC  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
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