

# BONANZA CREEK ENERGY OPERATING

Well Name: **North Platte Federal F21-J24-22HNB**

Surface Location: North Platte F-22 Pad Sec.22-T5N-R63W  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

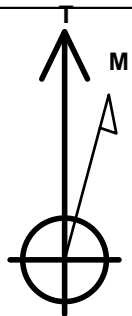
Ground Elevation: 4658.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1386830.14	3298927.84	40.390285	-104.426818	

RKB - 13' WELI @ 4671.0ft (RKB - 13')

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 677'FNL & 1205'FWL	1.0	0.0	0.0	Point
BHL 470'FSL & 1628'FWL	6486.0	-4136.7	427.4	Point
T1 531'FNL & 1600'FWL	6486.0	143.2	395.0	Point



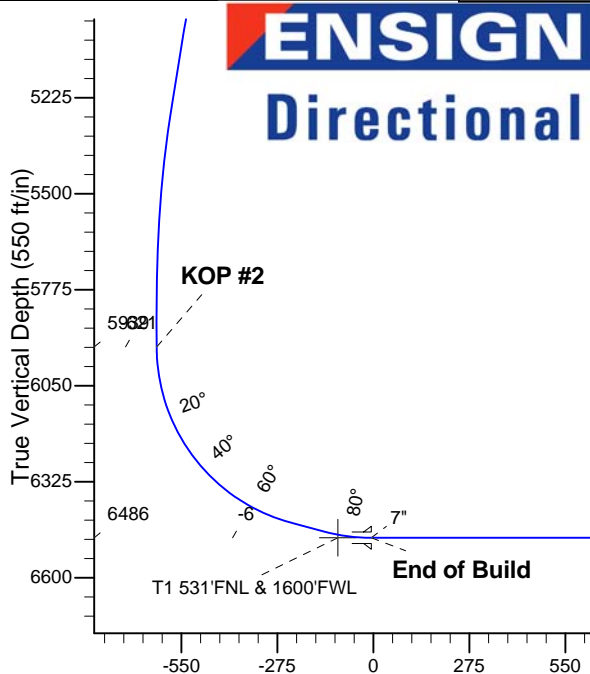
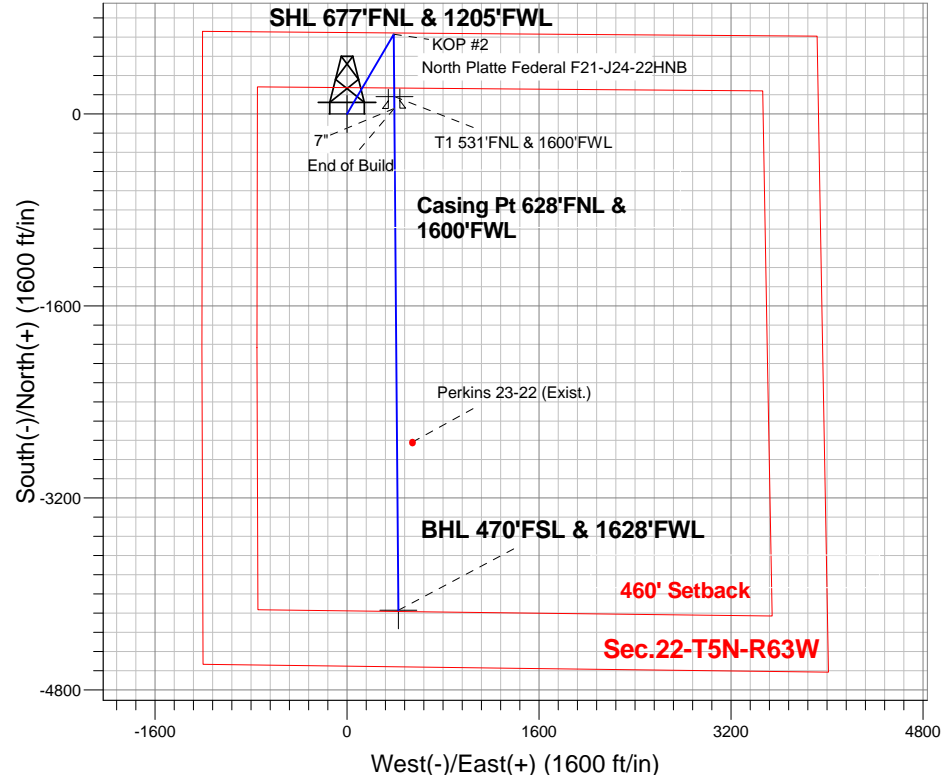
Azimuths to True North  
Magnetic North: 8.36°

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

North Platte F-22 Pad Sec.22-T5N-R63W  
North Platte Federal F21-J24-22HNB  
Plan #1 (11-12-13)  
14:55, November 20 2013

## ANNOTATIONS

TVD	MD	Annotation
1400.0	1400.0	KOP #1
5939.3	6012.2	KOP #2
6486.0	6930.4	End of Build



## 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	1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	
3	1968.6	11.37	30.42	1964.9	48.5	28.5	2.00	30.42	-45.3	
4	5304.3	11.37	30.42	5235.1	615.7	361.5	0.00	0.00	-575.3	
5	5872.9	0.00	0.00	5800.0	664.2	390.0	2.00	180.00	-620.6	
6	6012.2	0.00	0.00	5939.2	664.2	390.0	0.00	0.00	-620.6	
7	6694.0	75.00	179.55	6442.4	278.2	393.0	11.00	179.55	-236.3	
8	6794.0	75.00	179.55	6468.3	181.6	393.8	0.00	0.00	-140.1	
9	6930.4	90.00	179.55	6486.0	46.8	394.8	11.00	0.00	-5.9	
10	11114.0	90.00	179.55	6486.0	-4136.7	427.4	0.00	0.00	4158.8	BHL 470'FSL & 1628'FWL

BHL 470'FSL & 1628'FWL

Vertical Section at 174.10° (550 ft/in)



# **BONANZA CREEK ENERGY OPERATING**

**SEC.22-T5N-R63W**

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

**North Platte Federal F21-J24-22HNB**

**Wellbore #1**

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

## **Standard Planning Report**

**20 November, 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	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,968.6	11.37	30.42	1,964.9	48.5	28.5	2.00	2.00	0.00	30.42	
5,304.3	11.37	30.42	5,235.1	615.7	361.5	0.00	0.00	0.00	0.00	
5,872.9	0.00	0.00	5,800.0	664.2	390.0	2.00	-2.00	0.00	180.00	
6,012.2	0.00	0.00	5,939.2	664.2	390.0	0.00	0.00	0.00	0.00	
6,694.0	75.00	179.55	6,442.4	278.2	393.0	11.00	11.00	0.00	179.55	
6,794.0	75.00	179.55	6,468.3	181.6	393.8	0.00	0.00	0.00	0.00	
6,930.4	90.00	179.55	6,486.0	46.8	394.8	11.00	11.00	0.00	0.00	
11,114.0	90.00	179.55	6,486.0	-4,136.7	427.4	0.00	0.00	0.00	0.00	BHL 470'FSL & 162

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal F21-J24-22HNB
<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Project:</b>	SEC.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (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 F21-J24-22HNB	<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 677'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
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
<b>KOP #1</b>									
1,500.0	2.00	30.42	1,500.0	1.5	0.9	-1.4	2.00	2.00	0.00
1,600.0	4.00	30.42	1,599.8	6.0	3.5	-5.6	2.00	2.00	0.00
1,700.0	6.00	30.42	1,699.5	13.5	7.9	-12.6	2.00	2.00	0.00
1,800.0	8.00	30.42	1,798.7	24.0	14.1	-22.5	2.00	2.00	0.00
1,900.0	10.00	30.42	1,897.5	37.5	22.0	-35.1	2.00	2.00	0.00
1,968.6	11.37	30.42	1,964.9	48.5	28.5	-45.3	2.00	2.00	0.00
2,000.0	11.37	30.42	1,995.7	53.8	31.6	-50.3	0.00	0.00	0.00
2,100.0	11.37	30.42	2,093.7	70.8	41.6	-66.2	0.00	0.00	0.00
2,200.0	11.37	30.42	2,191.7	87.8	51.6	-82.1	0.00	0.00	0.00
2,300.0	11.37	30.42	2,289.8	104.9	61.6	-98.0	0.00	0.00	0.00
2,400.0	11.37	30.42	2,387.8	121.9	71.5	-113.9	0.00	0.00	0.00
2,500.0	11.37	30.42	2,485.8	138.9	81.5	-129.7	0.00	0.00	0.00
2,600.0	11.37	30.42	2,583.9	155.9	91.5	-145.6	0.00	0.00	0.00
2,700.0	11.37	30.42	2,681.9	172.9	101.5	-161.5	0.00	0.00	0.00
2,800.0	11.37	30.42	2,780.0	189.9	111.5	-177.4	0.00	0.00	0.00
2,900.0	11.37	30.42	2,878.0	206.9	121.5	-193.3	0.00	0.00	0.00
3,000.0	11.37	30.42	2,976.0	223.9	131.5	-209.2	0.00	0.00	0.00
3,100.0	11.37	30.42	3,074.1	240.9	141.4	-225.1	0.00	0.00	0.00
3,200.0	11.37	30.42	3,172.1	257.9	151.4	-241.0	0.00	0.00	0.00
3,300.0	11.37	30.42	3,270.1	274.9	161.4	-256.8	0.00	0.00	0.00
3,400.0	11.37	30.42	3,368.2	291.9	171.4	-272.7	0.00	0.00	0.00
3,500.0	11.37	30.42	3,466.2	308.9	181.4	-288.6	0.00	0.00	0.00
3,600.0	11.37	30.42	3,564.2	325.9	191.4	-304.5	0.00	0.00	0.00
3,700.0	11.37	30.42	3,662.3	342.9	201.3	-320.4	0.00	0.00	0.00
3,800.0	11.37	30.42	3,760.3	359.9	211.3	-336.3	0.00	0.00	0.00
3,900.0	11.37	30.42	3,858.4	376.9	221.3	-352.2	0.00	0.00	0.00
4,000.0	11.37	30.42	3,956.4	393.9	231.3	-368.1	0.00	0.00	0.00
4,100.0	11.37	30.42	4,054.4	410.9	241.3	-383.9	0.00	0.00	0.00
4,200.0	11.37	30.42	4,152.5	427.9	251.3	-399.8	0.00	0.00	0.00
4,300.0	11.37	30.42	4,250.5	444.9	261.2	-415.7	0.00	0.00	0.00
4,400.0	11.37	30.42	4,348.5	461.9	271.2	-431.6	0.00	0.00	0.00
4,500.0	11.37	30.42	4,446.6	478.9	281.2	-447.5	0.00	0.00	0.00
4,600.0	11.37	30.42	4,544.6	495.9	291.2	-463.4	0.00	0.00	0.00
4,700.0	11.37	30.42	4,642.6	512.9	301.2	-479.3	0.00	0.00	0.00
4,800.0	11.37	30.42	4,740.7	529.9	311.2	-495.2	0.00	0.00	0.00
4,900.0	11.37	30.42	4,838.7	546.9	321.2	-511.0	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal F21-J24-22HNB
<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Project:</b>	SEC.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (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 F21-J24-22HNB	<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	11.37	30.42	4,936.8	564.0	331.1	-526.9	0.00	0.00	0.00
5,100.0	11.37	30.42	5,034.8	581.0	341.1	-542.8	0.00	0.00	0.00
5,200.0	11.37	30.42	5,132.8	598.0	351.1	-558.7	0.00	0.00	0.00
5,300.0	11.37	30.42	5,230.9	615.0	361.1	-574.6	0.00	0.00	0.00
5,304.3	11.37	30.42	5,235.1	615.7	361.5	-575.3	0.00	0.00	0.00
5,400.0	9.46	30.42	5,329.2	630.6	370.3	-589.2	2.00	-2.00	0.00
5,500.0	7.46	30.42	5,428.1	643.3	377.7	-601.1	2.00	-2.00	0.00
5,600.0	5.46	30.42	5,527.5	653.0	383.4	-610.1	2.00	-2.00	0.00
5,700.0	3.46	30.42	5,627.2	659.7	387.4	-616.4	2.00	-2.00	0.00
5,800.0	1.46	30.42	5,727.1	663.4	389.5	-619.9	2.00	-2.00	0.00
5,872.9	0.00	0.00	5,800.0	664.2	390.0	-620.6	2.00	-2.00	0.00
5,900.0	0.00	0.00	5,827.1	664.2	390.0	-620.6	0.00	0.00	0.00
6,000.0	0.00	0.00	5,927.1	664.2	390.0	-620.6	0.00	0.00	0.00
6,012.2	0.00	0.00	5,939.3	664.2	390.0	-620.6	0.00	0.00	0.00
<b>KOP #2</b>									
6,100.0	9.66	179.55	6,026.6	656.8	390.1	-613.3	11.00	11.00	0.00
6,200.0	20.66	179.55	6,123.0	630.7	390.3	-587.3	11.00	11.00	0.00
6,300.0	31.66	179.55	6,212.6	586.7	390.6	-543.4	11.00	11.00	0.00
6,400.0	42.66	179.55	6,292.2	526.4	391.1	-483.4	11.00	11.00	0.00
6,500.0	53.66	179.55	6,358.8	452.0	391.7	-409.4	11.00	11.00	0.00
6,600.0	64.66	179.55	6,410.0	366.3	392.3	-324.0	11.00	11.00	0.00
6,694.0	75.00	179.55	6,442.4	278.2	393.0	-236.3	11.00	11.00	0.00
6,700.0	75.00	179.55	6,443.9	272.4	393.1	-230.5	0.00	0.00	0.00
6,794.0	75.00	179.55	6,468.3	181.6	393.8	-140.1	0.00	0.00	0.00
6,800.0	75.66	179.55	6,469.8	175.8	393.8	-134.4	11.00	11.00	0.00
6,834.7	79.48	179.55	6,477.2	141.8	394.1	-100.6	11.00	11.00	0.00
<b>T1 531'FNL &amp; 1600'FWL</b>									
6,900.0	86.66	179.55	6,485.1	77.1	394.6	-36.2	11.00	11.00	0.00
6,930.4	90.00	179.55	6,486.0	46.7	394.8	-5.9	10.99	10.99	0.00
<b>End of Build - 7"</b>									
7,000.0	90.00	179.55	6,486.0	-22.9	395.4	63.4	0.00	0.00	0.00
7,100.0	90.00	179.55	6,486.0	-122.9	396.1	162.9	0.00	0.00	0.00
7,200.0	90.00	179.55	6,486.0	-222.9	396.9	262.5	0.00	0.00	0.00
7,300.0	90.00	179.55	6,486.0	-322.9	397.7	362.0	0.00	0.00	0.00
7,400.0	90.00	179.55	6,486.0	-422.9	398.5	461.6	0.00	0.00	0.00
7,500.0	90.00	179.55	6,486.0	-522.9	399.2	561.1	0.00	0.00	0.00
7,600.0	90.00	179.55	6,486.0	-622.9	400.0	660.7	0.00	0.00	0.00
7,700.0	90.00	179.55	6,486.0	-722.8	400.8	760.2	0.00	0.00	0.00
7,800.0	90.00	179.55	6,486.0	-822.8	401.6	859.8	0.00	0.00	0.00
7,900.0	90.00	179.55	6,486.0	-922.8	402.4	959.3	0.00	0.00	0.00
8,000.0	90.00	179.55	6,486.0	-1,022.8	403.1	1,058.9	0.00	0.00	0.00
8,100.0	90.00	179.55	6,486.0	-1,122.8	403.9	1,158.4	0.00	0.00	0.00
8,200.0	90.00	179.55	6,486.0	-1,222.8	404.7	1,257.9	0.00	0.00	0.00
8,300.0	90.00	179.55	6,486.0	-1,322.8	405.5	1,357.5	0.00	0.00	0.00
8,400.0	90.00	179.55	6,486.0	-1,422.8	406.3	1,457.0	0.00	0.00	0.00
8,500.0	90.00	179.55	6,486.0	-1,522.8	407.0	1,556.6	0.00	0.00	0.00
8,600.0	90.00	179.55	6,486.0	-1,622.8	407.8	1,656.1	0.00	0.00	0.00
8,700.0	90.00	179.55	6,486.0	-1,722.8	408.6	1,755.7	0.00	0.00	0.00
8,800.0	90.00	179.55	6,486.0	-1,822.8	409.4	1,855.2	0.00	0.00	0.00
8,900.0	90.00	179.55	6,486.0	-1,922.8	410.1	1,954.8	0.00	0.00	0.00
9,000.0	90.00	179.55	6,486.0	-2,022.8	410.9	2,054.3	0.00	0.00	0.00
9,100.0	90.00	179.55	6,486.0	-2,122.8	411.7	2,153.9	0.00	0.00	0.00
9,200.0	90.00	179.55	6,486.0	-2,222.8	412.5	2,253.4	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal F21-J24-22HNB
<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Project:</b>	SEC.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (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 F21-J24-22HNB	<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)	
9,300.0	90.00	179.55	6,486.0	-2,322.8	413.3	2,353.0	0.00	0.00	0.00	
9,400.0	90.00	179.55	6,486.0	-2,422.8	414.0	2,452.5	0.00	0.00	0.00	
9,500.0	90.00	179.55	6,486.0	-2,522.8	414.8	2,552.1	0.00	0.00	0.00	
9,600.0	90.00	179.55	6,486.0	-2,622.8	415.6	2,651.6	0.00	0.00	0.00	
9,700.0	90.00	179.55	6,486.0	-2,722.8	416.4	2,751.2	0.00	0.00	0.00	
9,800.0	90.00	179.55	6,486.0	-2,822.8	417.2	2,850.7	0.00	0.00	0.00	
9,900.0	90.00	179.55	6,486.0	-2,922.8	417.9	2,950.3	0.00	0.00	0.00	
10,000.0	90.00	179.55	6,486.0	-3,022.8	418.7	3,049.8	0.00	0.00	0.00	
10,100.0	90.00	179.55	6,486.0	-3,122.8	419.5	3,149.4	0.00	0.00	0.00	
10,200.0	90.00	179.55	6,486.0	-3,222.8	420.3	3,248.9	0.00	0.00	0.00	
10,300.0	90.00	179.55	6,486.0	-3,322.8	421.0	3,348.4	0.00	0.00	0.00	
10,400.0	90.00	179.55	6,486.0	-3,422.8	421.8	3,448.0	0.00	0.00	0.00	
10,500.0	90.00	179.55	6,486.0	-3,522.8	422.6	3,547.5	0.00	0.00	0.00	
10,600.0	90.00	179.55	6,486.0	-3,622.8	423.4	3,647.1	0.00	0.00	0.00	
10,700.0	90.00	179.55	6,486.0	-3,722.8	424.2	3,746.6	0.00	0.00	0.00	
10,800.0	90.00	179.55	6,486.0	-3,822.8	424.9	3,846.2	0.00	0.00	0.00	
10,900.0	90.00	179.55	6,486.0	-3,922.8	425.7	3,945.7	0.00	0.00	0.00	
11,000.0	90.00	179.55	6,486.0	-4,022.7	426.5	4,045.3	0.00	0.00	0.00	
11,100.0	90.00	179.55	6,486.0	-4,122.7	427.3	4,144.8	0.00	0.00	0.00	
11,114.0	90.00	179.55	6,486.0	-4,136.7	427.4	4,158.8	0.00	0.00	0.00	
BHL 470'FSL & 1628'FWL										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
SHL 677'FNL & 1205' - hit/miss target - Shape - Point	0.00	0.00	1.0	0.0	0.0	1,386,830.15	3,298,927.84	40.390285	-104.426818	
T1 531'FNL & 1600'F - plan misses target center by 8.9ft at 6834.7ft MD (6477.2 TVD, 141.8 N, 394.1 E) - Point	0.00	0.00	6,486.0	143.2	395.0	1,386,978.09	3,299,321.06	40.390678	-104.425400	
BHL 470'FSL & 1628'I - plan hits target center - Point	0.00	0.00	6,486.0	-4,136.7	427.4	1,382,699.05	3,299,405.23	40.378930	-104.425284	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
6,930.4	6,486.0	7"	7	7-1/2		

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal F21-J24-22HNB
<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Project:</b>	SEC.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (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 F21-J24-22HNB	<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)	
1,400.0	1,400.0	0.0	0.0	KOP #1
6,012.2	5,939.3	664.2	390.0	KOP #2
6,930.4	6,486.0	46.7	394.8	End of Build



# **BONANZA CREEK ENERGY OPERATING**

**SEC.22-T5N-R63W**

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

**North Platte Federal F21-J24-22HNB**

**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 F21-J24-22HNB
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal F21-J24-22HNB	<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	1,599.8	1,585.1	1,577.4	3.5	3.9	-68.67	91.9	-65.8	112.5	105.5	6.98	16.121	
1,700.0	1,699.5	1,683.4	1,673.9	3.7	4.2	-72.55	105.7	-78.5	128.8	121.3	7.43	17.325	
1,800.0	1,798.7	1,781.5	1,770.2	3.9	4.6	-76.81	119.5	-91.1	144.8	136.9	7.91	18.313	
1,900.0	1,897.5	1,879.3	1,866.2	4.2	5.0	-81.36	133.3	-103.8	161.0	152.6	8.41	19.139	
2,000.0	1,995.7	1,976.8	1,961.9	4.5	5.4	-86.13	147.0	-116.3	177.9	168.9	8.96	19.849	
2,100.0	2,093.7	2,074.1	2,057.4	4.8	5.8	-90.50	160.7	-128.8	195.9	186.3	9.55	20.508	
2,200.0	2,191.7	2,171.5	2,153.0	5.1	6.1	-94.13	174.4	-141.4	214.8	204.7	10.17	21.123	
2,300.0	2,289.8	2,268.8	2,248.6	5.5	6.5	-97.17	188.1	-153.9	234.5	223.7	10.81	21.689	
2,400.0	2,387.8	2,366.1	2,344.1	5.8	6.9	-99.74	201.8	-166.5	254.7	243.2	11.47	22.205	
2,500.0	2,485.8	2,463.5	2,439.7	6.2	7.3	-101.93	215.5	-179.0	275.3	263.2	12.14	22.676	
2,600.0	2,583.9	2,560.8	2,535.2	6.6	7.7	-103.81	229.2	-191.6	296.3	283.4	12.82	23.106	
2,700.0	2,681.9	2,658.2	2,630.8	6.9	8.1	-105.45	242.9	-204.1	317.5	304.0	13.51	23.498	
2,800.0	2,780.0	2,755.5	2,726.3	7.3	8.5	-106.88	256.6	-216.6	338.9	324.7	14.21	23.857	
2,900.0	2,878.0	2,852.9	2,821.9	7.7	8.9	-108.15	270.3	-229.2	360.6	345.7	14.91	24.186	
3,000.0	2,976.0	2,950.2	2,917.4	8.1	9.3	-109.27	283.9	-241.7	382.3	366.7	15.61	24.488	
3,100.0	3,074.1	3,047.5	3,013.0	8.5	9.7	-110.26	297.6	-254.3	404.2	387.9	16.32	24.767	
3,200.0	3,172.1	3,144.9	3,108.5	8.9	10.2	-111.16	311.3	-266.8	426.2	409.2	17.03	25.025	
3,300.0	3,270.1	3,242.2	3,204.1	9.3	10.6	-111.97	325.0	-279.3	448.3	430.6	17.75	25.264	
3,400.0	3,368.2	3,339.6	3,299.7	9.7	11.0	-112.70	338.7	-291.9	470.5	452.1	18.46	25.486	
3,500.0	3,466.2	3,436.9	3,395.2	10.1	11.4	-113.37	352.4	-304.4	492.8	473.6	19.18	25.692	
3,600.0	3,564.2	3,534.2	3,490.8	10.5	11.8	-113.98	366.1	-317.0	515.0	495.1	19.90	25.884	
3,700.0	3,662.3	3,631.6	3,586.3	10.9	12.2	-114.54	379.8	-329.5	537.4	516.8	20.62	26.064	
3,800.0	3,760.3	3,728.9	3,681.9	11.3	12.6	-115.06	393.5	-342.1	559.8	538.4	21.34	26.232	
3,900.0	3,858.4	3,826.3	3,777.4	11.7	13.0	-115.53	407.2	-354.6	582.2	560.2	22.06	26.390	
4,000.0	3,956.4	3,923.6	3,873.0	12.2	13.4	-115.97	420.9	-367.1	604.7	581.9	22.79	26.538	
4,100.0	4,054.4	4,021.0	3,968.5	12.6	13.8	-116.38	434.6	-379.7	627.2	603.7	23.51	26.678	
4,200.0	4,152.5	4,118.3	4,064.1	13.0	14.2	-116.76	448.3	-392.2	649.7	625.5	24.23	26.809	
4,300.0	4,250.5	4,215.6	4,159.6	13.4	14.6	-117.11	462.0	-404.8	672.3	647.3	24.96	26.934	
4,400.0	4,348.5	4,313.0	4,255.2	13.8	15.1	-117.45	475.6	-417.3	694.8	669.2	25.69	27.051	
4,500.0	4,446.6	4,410.3	4,350.8	14.2	15.5	-117.76	489.3	-429.9	717.4	691.0	26.41	27.163	
4,600.0	4,544.6	4,507.7	4,446.3	14.7	15.9	-118.05	503.0	-442.4	740.1	712.9	27.14	27.268	
4,700.0	4,642.6	4,605.0	4,541.9	15.1	16.3	-118.32	516.7	-454.9	762.7	734.8	27.87	27.368	
4,800.0	4,740.7	4,702.3	4,637.4	15.5	16.7	-118.58	530.4	-467.5	785.3	756.7	28.60	27.464	
4,900.0	4,838.7	4,799.7	4,733.0	15.9	17.1	-118.83	544.1	-480.0	808.0	778.7	29.32	27.554	
5,000.0	4,936.8	4,897.0	4,828.5	16.3	17.5	-119.06	557.8	-492.6	830.7	800.6	30.05	27.641	
5,100.0	5,034.8	4,994.4	4,924.1	16.8	17.9	-119.28	571.5	-505.1	853.4	822.6	30.78	27.723	
5,200.0	5,132.8	5,091.7	5,019.6	17.2	18.3	-119.48	585.2	-517.6	876.1	844.5	31.51	27.802	
5,300.0	5,230.9	5,189.1	5,115.2	17.6	18.8	-119.68	598.9	-530.2	898.8	866.5	32.24	27.877	
5,400.0	5,329.2	5,286.6	5,210.9	18.0	19.2	-120.15	612.6	-542.8	920.7	887.7	32.99	27.912	
5,500.0	5,428.1	5,384.5	5,307.1	18.2	19.6	-120.42	626.4	-555.4	940.9	907.3	33.65	27.961	
5,600.0	5,527.5	5,497.4	5,418.1	18.5	20.0	-120.45	641.7	-569.4	959.1	924.8	34.30	27.964	
5,700.0	5,627.2	5,625.5	5,544.7	18.7	20.4	-120.37	655.5	-582.1	972.8	938.0	34.84	27.921	
5,800.0	5,727.1	5,754.9	5,673.4	18.9	20.7	-120.24	665.2	-590.9	981.9	946.6	35.30	27.814	
5,900.0	5,827.1	5,885.1	5,803.4	19.0	20.9	-89.63	670.6	-595.9	986.2	950.5	35.65	27.660	
6,000.0	5,927.1	6,007.8	5,926.1	19.1	21.1	-89.56	671.8	-597.0	987.0	951.0	35.98	27.430	
6,100.0	6,026.6	6,108.1	6,026.4	19.2	21.2	91.28	671.4	-597.0	987.2	951.0	36.19	27.277	
6,200.0	6,123.0	6,212.2	6,129.3	19.1	21.2	91.97	656.6	-596.9	987.6	951.6	36.02	27.420	
6,300.0	6,212.6	6,318.9	6,229.5	18.8	21.0	92.60	620.6	-596.8	988.2	952.7	35.49	27.840	
6,400.0	6,292.2	6,428.2	6,322.4	18.4	20.7	93.13	563.4	-596.6	988.9	954.2	34.71	28.489	
6,500.0	6,358.8	6,539.6	6,402.7	18.0	20.3	93.54	486.4	-596.4	989.6	955.8	33.81	29.273	
6,600.0	6,410.0	6,652.9	6,465.7	17.5	19.8	93.81	392.6	-596.0	990.3	957.4	32.95	30.054	
6,700.0	6,443.9	6,767.2	6,507.2	17.1	19.3	93.92	286.3	-595.7	990.9	958.6	32.33	30.649	

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 F21-J24-22HNB
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal F21-J24-22HNB	<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 11-14-22HNC - 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		
6,800.0	6,469.8	6,867.3	6,533.1	16.7	18.9	93.92	189.6	-595.4	991.3	959.2	32.12	30.866		
6,900.0	6,485.1	6,981.9	6,550.5	16.4	18.6	93.86	76.6	-595.0	991.8	959.4	32.35	30.659		
7,000.0	6,486.0	7,084.8	6,551.0	16.3	18.3	93.81	-26.3	-594.6	992.2	959.2	32.98	30.085		
7,100.0	6,486.0	7,184.8	6,551.0	16.7	18.2	93.81	-126.3	-594.3	992.6	958.6	34.01	29.182		
7,200.0	6,486.0	7,284.7	6,551.0	17.6	18.7	93.81	-226.2	-593.9	993.0	957.6	35.44	28.023		
7,300.0	6,486.0	7,384.7	6,551.0	18.5	19.6	93.81	-326.2	-593.6	993.5	956.3	37.20	26.705		
7,400.0	6,486.0	7,484.7	6,551.0	19.6	20.7	93.81	-426.2	-593.2	993.9	954.6	39.26	25.313		
7,500.0	6,486.0	7,584.7	6,551.0	20.8	21.9	93.81	-526.2	-592.9	994.4	952.8	41.58	23.914		
7,600.0	6,486.0	7,684.7	6,551.0	22.1	23.2	93.80	-626.2	-592.6	994.8	950.7	44.11	22.553		
7,700.0	6,486.0	7,784.7	6,551.0	23.5	24.6	93.80	-726.2	-592.2	995.2	948.4	46.82	21.258		
7,800.0	6,486.0	7,884.7	6,551.0	25.0	26.0	93.80	-826.2	-591.9	995.7	946.0	49.67	20.044		
7,900.0	6,486.0	7,984.7	6,551.0	26.5	27.5	93.80	-926.2	-591.5	996.1	943.4	52.66	18.917		
8,000.0	6,486.0	8,084.7	6,551.0	28.0	29.1	93.80	-1,026.2	-591.2	996.5	940.8	55.74	17.877		
8,100.0	6,486.0	8,184.7	6,551.0	29.6	30.6	93.80	-1,126.2	-590.9	997.0	938.0	58.92	16.921		
8,200.0	6,486.0	8,284.7	6,551.0	31.2	32.2	93.79	-1,226.2	-590.5	997.4	935.2	62.17	16.043		
8,300.0	6,486.0	8,384.7	6,551.0	32.9	33.9	93.79	-1,326.2	-590.2	997.8	932.4	65.48	15.238		
8,400.0	6,486.0	8,484.7	6,551.0	34.6	35.5	93.79	-1,426.2	-589.8	998.3	929.4	68.85	14.499		
8,500.0	6,486.0	8,584.7	6,551.0	36.3	37.2	93.79	-1,526.2	-589.5	998.7	926.4	72.27	13.819		
8,600.0	6,486.0	8,684.7	6,551.0	38.0	38.9	93.79	-1,626.2	-589.2	999.1	923.4	75.73	13.194		
8,700.0	6,486.0	8,784.7	6,551.0	39.8	40.7	93.79	-1,726.2	-588.8	999.6	920.4	79.22	12.618		

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal F21-J24-22HNB
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal F21-J24-22HNB	<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 A11-E14-22HNB - 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									
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	0.0	0.0	0.0	0.0	-0.40	40.1	-0.3	40.1					
100.0	100.0	99.0	99.0	0.1	0.1	-0.40	40.1	-0.3	40.1	39.9	0.22	179.192		
200.0	200.0	199.0	199.0	0.3	0.3	-0.40	40.1	-0.3	40.1	39.4	0.67	59.631		
300.0	300.0	299.0	299.0	0.6	0.6	-0.40	40.1	-0.3	40.1	39.0	1.12	35.731		
400.0	400.0	399.0	399.0	0.8	0.8	-0.40	40.1	-0.3	40.1	38.5	1.57	25.508 CC, ES		
500.0	500.0	498.2	498.1	1.0	1.0	-2.30	41.1	-1.6	41.1	39.1	2.02	20.393		
600.0	600.0	597.1	596.9	1.2	1.2	-7.49	44.0	-5.8	44.4	42.0	2.46	18.047		
700.0	700.0	695.5	695.0	1.5	1.5	-14.50	48.9	-12.7	50.7	47.8	2.92	17.394 SF		
800.0	800.0	793.3	792.0	1.7	1.7	-21.70	55.8	-22.2	60.4	57.0	3.37	17.930		
900.0	900.0	890.1	887.7	1.9	2.0	-28.02	64.4	-34.3	73.8	70.0	3.83	19.296		
1,000.0	1,000.0	985.8	981.7	2.1	2.4	-33.12	74.8	-48.8	91.0	86.7	4.29	21.208		
1,100.0	1,100.0	1,081.5	1,075.1	2.4	2.7	-37.09	86.9	-65.7	111.5	106.8	4.77	23.395		
1,200.0	1,200.0	1,179.0	1,170.1	2.6	3.2	-39.95	99.6	-83.4	133.1	127.8	5.25	25.351		
1,300.0	1,300.0	1,276.4	1,265.2	2.8	3.6	-42.01	112.3	-101.1	154.9	149.1	5.74	26.967		
1,400.0	1,400.0	1,373.9	1,360.2	3.0	4.0	-43.56	125.0	-118.8	176.8	170.5	6.25	28.306		
1,500.0	1,500.0	1,471.4	1,455.2	3.3	4.5	-75.27	137.6	-136.6	198.4	191.7	6.68	29.704		
1,600.0	1,599.8	1,568.8	1,550.1	3.5	4.9	-77.12	150.3	-154.3	219.3	212.2	7.14	30.717		
1,700.0	1,699.5	1,666.1	1,645.0	3.7	5.4	-79.41	163.0	-172.0	239.9	232.3	7.60	31.555		
1,800.0	1,798.7	1,763.1	1,739.5	3.9	5.9	-82.02	175.6	-189.6	260.5	252.4	8.08	32.249		
1,900.0	1,897.5	1,859.7	1,833.6	4.2	6.3	-84.88	188.2	-207.1	281.4	272.8	8.58	32.811		
2,000.0	1,995.7	1,955.8	1,927.3	4.5	6.8	-88.02	200.7	-224.6	302.9	293.8	9.11	33.253		
2,100.0	2,093.7	2,051.7	2,020.8	4.8	7.2	-91.14	213.2	-242.0	325.4	315.7	9.68	33.614		
2,200.0	2,191.7	2,147.7	2,114.3	5.1	7.7	-93.87	225.6	-259.5	348.7	338.4	10.28	33.913		
2,300.0	2,289.8	2,243.6	2,207.9	5.5	8.1	-96.26	238.1	-276.9	372.7	361.8	10.91	34.161		
2,400.0	2,387.8	2,339.6	2,301.4	5.8	8.6	-98.36	250.6	-294.4	397.2	385.6	11.56	34.371		
2,500.0	2,485.8	2,435.5	2,394.9	6.2	9.1	-100.22	263.1	-311.8	422.2	410.0	12.22	34.551		
2,600.0	2,583.9	2,531.5	2,488.4	6.6	9.5	-101.87	275.6	-329.2	447.5	434.6	12.89	34.707		
2,700.0	2,681.9	2,627.4	2,582.0	6.9	10.0	-103.35	288.1	-346.7	473.2	459.6	13.58	34.845		
2,800.0	2,780.0	2,723.4	2,675.5	7.3	10.4	-104.68	300.6	-364.1	499.2	484.9	14.27	34.969		
2,900.0	2,878.0	2,819.3	2,769.0	7.7	10.9	-105.88	313.0	-381.6	525.3	510.4	14.97	35.081		
3,000.0	2,976.0	2,915.3	2,862.5	8.1	11.4	-106.96	325.5	-399.0	551.7	536.0	15.68	35.184		
3,100.0	3,074.1	3,011.3	2,956.1	8.5	11.8	-107.95	338.0	-416.4	578.2	561.8	16.39	35.280		
3,200.0	3,172.1	3,107.2	3,049.6	8.9	12.3	-108.85	350.5	-433.9	604.9	587.8	17.10	35.369		
3,300.0	3,270.1	3,203.2	3,143.1	9.3	12.8	-109.67	363.0	-451.3	631.7	613.9	17.82	35.452		
3,400.0	3,368.2	3,299.1	3,236.6	9.7	13.2	-110.43	375.5	-468.8	658.6	640.1	18.54	35.530		
3,500.0	3,466.2	3,395.1	3,330.2	10.1	13.7	-111.13	388.0	-486.2	685.7	666.4	19.26	35.604		
3,600.0	3,564.2	3,491.0	3,423.7	10.5	14.1	-111.77	400.4	-503.6	712.8	692.8	19.98	35.674		
3,700.0	3,662.3	3,587.0	3,517.2	10.9	14.6	-112.37	412.9	-521.1	740.0	719.3	20.70	35.741		
3,800.0	3,760.3	3,682.9	3,610.8	11.3	15.1	-112.93	425.4	-538.5	767.2	745.8	21.43	35.804		
3,900.0	3,858.4	3,778.9	3,704.3	11.7	15.5	-113.45	437.9	-556.0	794.5	772.4	22.15	35.864		
4,000.0	3,956.4	3,874.8	3,797.8	12.2	16.0	-113.93	450.4	-573.4	821.9	799.0	22.88	35.922		
4,100.0	4,054.4	3,970.8	3,891.3	12.6	16.5	-114.38	462.9	-590.8	849.3	825.7	23.61	35.977		
4,200.0	4,152.5	4,066.7	3,984.9	13.0	16.9	-114.81	475.3	-608.3	876.8	852.5	24.34	36.029		
4,300.0	4,250.5	4,162.7	4,078.4	13.4	17.4	-115.21	487.8	-625.7	904.3	879.3	25.06	36.080		
4,400.0	4,348.5	4,258.7	4,171.9	13.8	17.9	-115.58	500.3	-643.2	931.9	906.1	25.79	36.128		
4,500.0	4,446.6	4,354.6	4,265.4	14.2	18.3	-115.94	512.8	-660.6	959.5	933.0	26.52	36.175		
4,600.0	4,544.6	4,450.6	4,359.0	14.7	18.8	-116.27	525.3	-678.0	987.1	959.9	27.25	36.219		

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							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	0.0	0.0	0.0	0.0	-0.53	60.1	-0.6	60.1						
100.0	100.0	100.0	100.0	0.1	0.1	-0.53	60.1	-0.6	60.1	59.9	0.22	267.451			
200.0	200.0	200.0	200.0	0.3	0.3	-0.53	60.1	-0.6	60.1	59.4	0.67	89.150 CC, ES			
300.0	300.0	299.0	299.0	0.6	0.6	-1.95	60.9	-2.1	60.9	59.8	1.12	54.503			
400.0	400.0	397.7	397.6	0.8	0.8	-5.98	63.2	-6.6	63.6	62.1	1.57	40.514			
500.0	500.0	496.0	495.5	1.0	1.0	-11.90	67.1	-14.1	68.7	66.7	2.03	33.838			
600.0	600.0	593.6	592.4	1.2	1.3	-18.71	72.5	-24.6	76.9	74.4	2.49	30.828			
700.0	700.0	690.3	687.9	1.5	1.6	-25.46	79.3	-37.8	88.7	85.7	2.96	29.974 SF			
800.0	800.0	785.9	781.8	1.7	2.0	-31.50	87.5	-53.6	104.2	100.8	3.42	30.453			
900.0	900.0	880.1	873.8	1.9	2.4	-36.59	97.0	-72.0	123.6	119.7	3.89	31.746			
1,000.0	1,000.0	974.2	964.9	2.1	2.9	-40.76	107.7	-92.8	146.5	142.1	4.38	33.451			
1,100.0	1,100.0	1,070.9	1,058.3	2.4	3.4	-43.98	119.1	-114.9	170.7	165.8	4.87	35.038			
1,200.0	1,200.0	1,167.5	1,151.6	2.6	3.9	-46.40	130.5	-137.0	195.3	190.0	5.38	36.316			
1,300.0	1,300.0	1,264.1	1,245.0	2.8	4.4	-48.27	141.9	-159.1	220.2	214.3	5.90	37.335			
1,400.0	1,400.0	1,360.8	1,338.4	3.0	4.9	-49.77	153.3	-181.2	245.2	238.8	6.43	38.157			
1,500.0	1,500.0	1,457.4	1,431.7	3.3	5.4	-81.28	164.7	-203.3	270.2	263.3	6.89	39.205			
1,600.0	1,599.8	1,553.8	1,524.9	3.5	5.9	-82.78	176.1	-225.4	294.8	287.5	7.36	40.053			
1,700.0	1,699.5	1,649.9	1,617.8	3.7	6.4	-84.60	187.4	-247.3	319.5	311.7	7.83	40.820			
1,800.0	1,798.7	1,745.7	1,710.3	3.9	7.0	-86.67	198.7	-269.2	344.4	336.1	8.30	41.506			
1,900.0	1,897.5	1,840.9	1,802.3	4.2	7.5	-88.90	210.0	-291.0	369.8	361.0	8.79	42.098			
2,000.0	1,995.7	1,935.5	1,893.8	4.5	8.0	-91.41	221.1	-312.6	396.1	386.8	9.30	42.590			
2,100.0	2,093.7	2,030.0	1,985.1	4.8	8.5	-94.04	232.3	-334.2	423.2	413.4	9.85	42.983			
2,200.0	2,191.7	2,124.4	2,076.3	5.1	9.0	-96.37	243.4	-355.8	451.1	440.7	10.42	43.276			
2,300.0	2,289.8	2,218.9	2,167.6	5.5	9.6	-98.42	254.5	-377.4	479.6	468.6	11.03	43.491			
2,400.0	2,387.8	2,313.3	2,258.9	5.8	10.1	-100.25	265.7	-399.0	508.7	497.0	11.65	43.648			
2,500.0	2,485.8	2,407.8	2,350.2	6.2	10.6	-101.89	276.8	-420.6	538.2	525.9	12.30	43.762			
2,600.0	2,583.9	2,502.2	2,441.5	6.6	11.1	-103.36	288.0	-442.2	568.0	555.0	12.96	43.844			
2,700.0	2,681.9	2,596.7	2,532.7	6.9	11.6	-104.68	299.1	-463.8	598.2	584.5	13.62	43.904			
2,800.0	2,780.0	2,691.2	2,624.0	7.3	12.1	-105.88	310.3	-485.4	628.6	614.3	14.30	43.947			
2,900.0	2,878.0	2,785.6	2,715.3	7.7	12.7	-106.97	321.4	-507.0	659.2	644.2	14.99	43.979			
3,000.0	2,976.0	2,880.1	2,806.6	8.1	13.2	-107.96	332.5	-528.6	690.1	674.4	15.68	44.002			
3,100.0	3,074.1	2,974.5	2,897.9	8.5	13.7	-108.87	343.7	-550.2	721.1	704.7	16.38	44.020			
3,200.0	3,172.1	3,069.0	2,989.1	8.9	14.2	-109.71	354.8	-571.8	752.3	735.2	17.08	44.033			
3,300.0	3,270.1	3,163.5	3,080.4	9.3	14.7	-110.48	366.0	-593.4	783.6	765.8	17.79	44.044			
3,400.0	3,368.2	3,257.9	3,171.7	9.7	15.3	-111.19	377.1	-615.0	815.1	796.6	18.50	44.053			
3,500.0	3,466.2	3,352.4	3,263.0	10.1	15.8	-111.84	388.3	-636.6	846.6	827.4	19.21	44.061			
3,600.0	3,564.2	3,446.8	3,354.2	10.5	16.3	-112.46	399.4	-658.2	878.2	858.3	19.93	44.067			
3,700.0	3,662.3	3,541.3	3,445.5	10.9	16.8	-113.02	410.5	-679.8	909.9	889.3	20.65	44.074			
3,800.0	3,760.3	3,635.8	3,536.8	11.3	17.3	-113.56	421.7	-701.4	941.7	920.4	21.36	44.080			
3,900.0	3,858.4	3,730.2	3,628.1	11.7	17.9	-114.05	432.8	-723.0	973.6	951.5	22.08	44.086			

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal F21-J24-22HNB
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal F21-J24-22HNB	<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	2.0	2.0	0.0	0.0	179.20	-20.0	0.3	20.0	20.0	0.00	8,200.431	
100.0	100.0	102.0	102.0	0.1	0.1	179.20	-20.0	0.3	20.0	19.8	0.23	87.407	
200.0	200.0	202.0	202.0	0.3	0.3	179.20	-20.0	0.3	20.0	19.4	0.68	29.522	
300.0	300.0	302.0	302.0	0.6	0.6	179.20	-20.0	0.3	20.0	18.9	1.13	17.760	
400.0	400.0	402.0	402.0	0.8	0.8	179.20	-20.0	0.3	20.0	18.5	1.58	12.700	
500.0	500.0	502.0	502.0	1.0	1.0	179.20	-20.0	0.3	20.0	18.0	2.03	9.884	
600.0	600.0	602.0	602.0	1.2	1.2	179.20	-20.0	0.3	20.0	17.6	2.48	8.090	
700.0	700.0	702.0	702.0	1.5	1.5	179.20	-20.0	0.3	20.0	17.1	2.93	6.848	
800.0	800.0	802.0	802.0	1.7	1.7	179.20	-20.0	0.3	20.0	16.7	3.38	5.936	
900.0	900.0	902.0	902.0	1.9	1.9	179.20	-20.0	0.3	20.0	16.2	3.83	5.238	
1,000.0	1,000.0	1,002.0	1,002.0	2.1	2.1	179.20	-20.0	0.3	20.0	15.8	4.28	4.687	
1,100.0	1,100.0	1,102.0	1,102.0	2.4	2.4	179.20	-20.0	0.3	20.0	15.3	4.72	4.241	
1,200.0	1,200.0	1,202.0	1,202.0	2.6	2.6	179.20	-20.0	0.3	20.0	14.9	5.17	3.873	
1,300.0	1,300.0	1,302.0	1,302.0	2.8	2.8	179.20	-20.0	0.3	20.0	14.4	5.62	3.563	
1,400.0	1,400.0	1,402.0	1,402.0	3.0	3.0	179.20	-20.0	0.3	20.0	14.0	6.07	3,300 CC, ES, SF	
1,500.0	1,500.0	1,502.0	1,502.0	3.3	3.3	151.17	-20.0	0.3	21.6	15.0	6.52	3.306	
1,600.0	1,599.8	1,601.9	1,601.9	3.5	3.5	156.65	-20.0	0.3	26.3	19.3	6.96	3.773	
1,700.0	1,699.5	1,702.4	1,702.4	3.7	3.7	164.14	-18.3	-0.3	32.9	25.5	7.39	4.455	
1,800.0	1,798.7	1,803.0	1,802.8	3.9	3.9	173.13	-13.3	-2.2	40.8	33.0	7.81	5.220	
1,900.0	1,897.5	1,903.3	1,902.7	4.2	4.2	-177.77	-5.0	-5.2	50.6	42.3	8.23	6.146	
2,000.0	1,995.7	2,003.3	2,002.0	4.5	4.4	-169.42	6.6	-9.4	62.7	54.0	8.66	7.232	
2,100.0	2,093.7	2,103.1	2,100.6	4.8	4.7	-161.60	21.4	-14.7	75.1	65.9	9.17	8.190	
2,200.0	2,191.7	2,202.4	2,198.0	5.1	4.9	-154.04	39.2	-21.1	87.6	77.9	9.72	9.011	
2,300.0	2,289.8	2,301.0	2,294.6	5.5	5.2	-148.01	57.5	-27.7	101.1	90.8	10.32	9.799	
2,400.0	2,387.8	2,399.6	2,391.3	5.8	5.6	-143.42	75.9	-34.4	115.5	104.5	10.95	10.548	
2,500.0	2,485.8	2,498.2	2,487.9	6.2	5.9	-139.87	94.3	-41.0	130.4	118.8	11.60	11.240	
2,600.0	2,583.9	2,596.8	2,584.5	6.6	6.2	-137.05	112.6	-47.6	145.7	133.5	12.28	11.872	
2,700.0	2,681.9	2,695.3	2,681.2	6.9	6.6	-134.76	131.0	-54.3	161.3	148.4	12.96	12.444	
2,800.0	2,780.0	2,793.9	2,777.8	7.3	6.9	-132.88	149.3	-60.9	177.1	163.5	13.67	12.962	
2,900.0	2,878.0	2,892.5	2,874.5	7.7	7.3	-131.31	167.7	-67.5	193.1	178.7	14.38	13.430	
3,000.0	2,976.0	2,991.1	2,971.1	8.1	7.7	-129.98	186.1	-74.2	209.2	194.1	15.10	13.853	
3,100.0	3,074.1	3,089.7	3,067.7	8.5	8.1	-128.84	204.4	-80.8	225.4	209.5	15.83	14.236	
3,200.0	3,172.1	3,188.3	3,164.4	8.9	8.4	-127.86	222.8	-87.4	241.6	225.1	16.57	14.585	
3,300.0	3,270.1	3,286.9	3,261.0	9.3	8.8	-126.99	241.2	-94.1	257.9	240.6	17.31	14.902	
3,400.0	3,368.2	3,385.5	3,357.6	9.7	9.2	-126.23	259.5	-100.7	274.3	256.3	18.06	15.192	
3,500.0	3,466.2	3,484.1	3,454.3	10.1	9.6	-125.56	277.9	-107.4	290.7	271.9	18.81	15.458	
3,600.0	3,564.2	3,582.7	3,550.9	10.5	10.0	-124.96	296.3	-114.0	307.2	287.6	19.56	15.701	
3,700.0	3,662.3	3,681.2	3,647.5	10.9	10.4	-124.42	314.6	-120.6	323.6	303.3	20.32	15.926	
3,800.0	3,760.3	3,779.8	3,744.2	11.3	10.8	-123.93	333.0	-127.3	340.1	319.0	21.08	16.133	
3,900.0	3,858.4	3,878.4	3,840.8	11.7	11.2	-123.48	351.4	-133.9	356.7	334.8	21.85	16.324	
4,000.0	3,956.4	3,977.0	3,937.5	12.2	11.6	-123.08	369.7	-140.5	373.2	350.6	22.61	16.502	
4,100.0	4,054.4	4,075.6	4,034.1	12.6	12.0	-122.71	388.1	-147.2	389.7	366.4	23.38	16.667	
4,200.0	4,152.5	4,174.2	4,130.7	13.0	12.4	-122.37	406.5	-153.8	406.3	382.2	24.16	16.821	
4,300.0	4,250.5	4,272.8	4,227.4	13.4	12.8	-122.06	424.8	-160.4	422.9	398.0	24.93	16.964	
4,400.0	4,348.5	4,371.4	4,324.0	13.8	13.2	-121.77	443.2	-167.1	439.5	413.8	25.70	17.099	
4,500.0	4,446.6	4,470.0	4,420.6	14.2	13.7	-121.50	461.6	-173.7	456.1	429.6	26.48	17.225	
4,600.0	4,544.6	4,568.6	4,517.3	14.7	14.1	-121.25	479.9	-180.3	472.7	445.5	27.26	17.343	
4,700.0	4,642.6	4,667.1	4,613.9	15.1	14.5	-121.02	498.3	-187.0	489.3	461.3	28.04	17.454	
4,800.0	4,740.7	4,765.7	4,710.6	15.5	14.9	-120.80	516.7	-193.6	506.0	477.1	28.82	17.558	
4,900.0	4,838.7	4,864.3	4,807.2	15.9	15.3	-120.59	535.0	-200.2	522.6	493.0	29.60	17.657	
5,000.0	4,936.8	4,962.9	4,903.8	16.3	15.7	-120.40	553.4	-206.9	539.2	508.9	30.38	17.750	
5,100.0	5,034.8	5,061.5	5,000.5	16.8	16.1	-120.22	571.8	-213.5	555.9	524.7	31.16	17.838	

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 F21-J24-22HNB
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal F21-J24-22HNB	<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							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	5,132.8	5,160.1	5,097.1	17.2	16.6	-120.05	590.1	-220.1	572.5	540.6	31.95	17.922		
5,300.0	5,230.9	5,258.7	5,193.7	17.6	17.0	-119.89	608.5	-226.8	589.2	556.5	32.73	18.001		
5,400.0	5,329.2	5,361.9	5,295.1	18.0	17.3	-119.92	627.1	-233.5	604.9	571.4	33.46	18.078		
5,500.0	5,428.1	5,468.9	5,400.6	18.2	17.6	-119.93	643.0	-239.2	617.6	583.6	34.06	18.134		
5,600.0	5,527.5	5,576.4	5,507.4	18.5	17.9	-119.94	655.2	-243.6	627.4	592.9	34.59	18.141		
5,700.0	5,627.2	5,684.4	5,615.0	18.7	18.2	-119.95	663.6	-246.7	634.2	599.2	35.03	18.102		
5,800.0	5,727.1	5,792.6	5,723.1	18.9	18.3	-119.96	668.3	-248.4	637.9	602.5	35.40	18.020		
5,900.0	5,827.1	5,898.6	5,829.1	19.0	18.5	-89.55	669.3	-248.7	638.7	603.0	35.70	17.890		
6,000.0	5,927.1	5,998.6	5,929.1	19.1	18.6	-89.55	669.3	-248.7	638.7	602.7	36.01	17.737		
6,100.0	6,026.6	6,100.0	6,030.1	19.2	18.7	90.89	661.6	-248.7	638.8	602.6	36.12	17.682		
6,200.0	6,123.0	6,201.6	6,127.8	19.1	18.6	90.84	634.7	-248.5	638.8	603.0	35.85	17.821		
6,300.0	6,212.6	6,303.0	6,218.4	18.8	18.3	90.76	589.4	-248.3	638.9	603.7	35.24	18.129		
6,400.0	6,292.2	6,404.3	6,298.4	18.4	17.9	90.66	527.5	-248.0	639.1	604.7	34.42	18.567		
6,500.0	6,358.8	6,505.4	6,364.8	18.0	17.4	90.53	451.5	-247.6	639.3	605.7	33.51	19.074		
6,600.0	6,410.0	6,606.2	6,415.2	17.5	16.9	90.38	364.4	-247.1	639.5	606.8	32.68	19.566		
6,700.0	6,443.9	6,706.7	6,448.0	17.1	16.6	90.23	269.6	-246.6	639.7	607.6	32.07	19.944		
6,800.0	6,469.8	6,806.7	6,473.7	16.7	16.3	90.22	172.9	-246.1	639.9	608.1	31.84	20.100		
6,900.0	6,485.1	6,906.9	6,487.5	16.4	16.2	90.05	73.8	-245.6	640.2	608.2	32.01	20.003		
7,000.0	6,486.0	7,007.0	6,488.0	16.3	16.4	90.00	-26.2	-245.1	640.5	607.9	32.59	19.654		
7,100.0	6,486.0	7,107.0	6,488.0	16.7	16.9	90.00	-126.2	-244.6	640.7	607.1	33.59	19.072		
7,200.0	6,486.0	7,207.0	6,488.0	17.6	17.6	90.00	-226.2	-244.1	641.0	606.0	35.00	18.314		
7,300.0	6,486.0	7,307.0	6,488.0	18.5	18.5	90.00	-326.2	-243.5	641.2	604.5	36.75	17.447		
7,400.0	6,486.0	7,407.0	6,488.0	19.6	19.5	90.00	-426.2	-243.0	641.5	602.7	38.81	16.529		
7,500.0	6,486.0	7,507.0	6,488.0	20.8	20.7	90.00	-526.2	-242.5	641.7	600.6	41.12	15.605		
7,600.0	6,486.0	7,607.0	6,488.0	22.1	22.0	90.00	-626.2	-242.0	642.0	598.3	43.66	14.706		
7,700.0	6,486.0	7,707.0	6,488.0	23.5	23.3	90.00	-726.2	-241.5	642.3	595.9	46.37	13.851		
7,800.0	6,486.0	7,807.0	6,488.0	25.0	24.8	90.00	-826.2	-240.9	642.5	593.3	49.23	13.050		
7,900.0	6,486.0	7,907.0	6,488.0	26.5	26.2	90.00	-926.2	-240.4	642.8	590.5	52.23	12.308		
8,000.0	6,486.0	8,007.0	6,488.0	28.0	27.8	90.00	-1,026.2	-239.9	643.0	587.7	55.32	11.623		
8,100.0	6,486.0	8,107.0	6,488.0	29.6	29.4	90.00	-1,126.2	-239.4	643.3	584.8	58.51	10.995		
8,200.0	6,486.0	8,206.9	6,488.0	31.2	31.0	90.00	-1,226.2	-238.8	643.5	581.8	61.77	10.418		
8,300.0	6,486.0	8,306.9	6,488.0	32.9	32.7	90.00	-1,326.2	-238.3	643.8	578.7	65.10	9.890		
8,400.0	6,486.0	8,406.9	6,488.0	34.6	34.4	90.00	-1,426.2	-237.8	644.1	575.6	68.48	9.406		
8,500.0	6,486.0	8,506.9	6,488.0	36.3	36.1	90.00	-1,526.2	-237.3	644.3	572.4	71.90	8.961		
8,600.0	6,486.0	8,606.9	6,488.0	38.0	37.8	90.00	-1,626.2	-236.8	644.6	569.2	75.37	8.552		
8,700.0	6,486.0	8,706.9	6,488.0	39.8	39.5	90.00	-1,726.2	-236.2	644.8	566.0	78.87	8.176		
8,800.0	6,486.0	8,806.9	6,488.0	41.5	41.3	90.00	-1,826.2	-235.7	645.1	562.7	82.41	7.828		
8,900.0	6,486.0	8,906.9	6,488.0	43.3	43.1	90.00	-1,926.2	-235.2	645.4	559.4	85.97	7.507		
9,000.0	6,486.0	9,006.9	6,488.0	45.1	44.9	90.00	-2,026.2	-234.7	645.6	556.1	89.55	7.209		
9,100.0	6,486.0	9,106.9	6,488.0	46.9	46.7	90.00	-2,126.2	-234.2	645.9	552.7	93.16	6.933		
9,200.0	6,486.0	9,206.9	6,488.0	48.7	48.5	90.00	-2,226.2	-233.6	646.1	549.3	96.78	6.676		
9,300.0	6,486.0	9,306.9	6,488.0	50.5	50.3	90.00	-2,326.2	-233.1	646.4	546.0	100.42	6.437		
9,400.0	6,486.0	9,406.9	6,488.0	52.3	52.1	90.00	-2,426.2	-232.6	646.6	542.6	104.07	6.213		
9,500.0	6,486.0	9,506.9	6,488.0	54.1	53.9	90.00	-2,526.2	-232.1	646.9	539.2	107.74	6.004		
9,600.0	6,486.0	9,606.9	6,488.0	56.0	55.8	90.00	-2,626.2	-231.6	647.2	535.7	111.42	5.808		
9,700.0	6,486.0	9,706.9	6,488.0	57.8	57.6	90.00	-2,726.2	-231.0	647.4	532.3	115.12	5.624		
9,800.0	6,486.0	9,806.9	6,488.0	59.7	59.5	90.00	-2,826.2	-230.5	647.7	528.9	118.82	5.451		
9,900.0	6,486.0	9,906.9	6,488.0	61.5	61.3	90.00	-2,926.2	-230.0	647.9	525.4	122.53	5.288		
10,000.0	6,486.0	10,006.9	6,488.0	63.4	63.2	90.00	-3,026.2	-229.5	648.2	521.9	126.25	5.134		
10,100.0	6,486.0	10,106.9	6,488.0	65.2	65.0	90.00	-3,126.2	-228.9	648.4	518.5	129.97	4.989		
10,200.0	6,486.0	10,206.9	6,488.0	67.1	66.9	90.00	-3,226.2	-228.4	648.7	515.0	133.70	4.852		
10,300.0	6,486.0	10,306.9	6,488.0	69.0	68.8	90.00	-3,326.2	-227.9	649.0	511.5	137.44	4.722		

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 F21-J24-22HNB
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal F21-J24-22HNB	<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									
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
10,400.0	6,486.0	10,406.9	6,488.0	70.8	70.6	90.00	-3,426.2	-227.4	649.2	508.0	141.19	4.598	
10,500.0	6,486.0	10,506.9	6,488.0	72.7	72.5	90.00	-3,526.1	-226.9	649.5	504.5	144.94	4.481	
10,600.0	6,486.0	10,606.9	6,488.0	74.6	74.4	90.00	-3,626.1	-226.3	649.7	501.0	148.69	4.370	
10,700.0	6,486.0	10,706.9	6,488.0	76.4	76.3	90.00	-3,726.1	-225.8	650.0	497.5	152.45	4.264	
10,800.0	6,486.0	10,806.9	6,488.0	78.3	78.2	90.00	-3,826.1	-225.3	650.2	494.0	156.22	4.162	
10,900.0	6,486.0	10,906.9	6,488.0	80.2	80.0	90.00	-3,926.1	-224.8	650.5	490.5	159.99	4.066	
11,000.0	6,486.0	11,006.9	6,488.0	82.1	81.9	90.00	-4,026.1	-224.3	650.8	487.0	163.76	3.974	
11,100.0	6,486.0	11,106.9	6,488.0	84.0	83.8	90.00	-4,126.1	-223.7	651.0	483.5	167.53	3.886	
11,114.0	6,486.0	11,109.2	6,488.0	84.2	83.8	90.00	-4,128.4	-223.7	651.2	483.3	167.84	3.880	



<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal F21-J24-22HNB
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal F21-J24-22HNB	<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	4.0	4.0	0.0	0.0	179.60	-40.1	0.3	40.1	40.1	0.00	8,550.583		
100.0	100.0	104.0	104.0	0.1	0.1	179.60	-40.1	0.3	40.1	39.8	0.23	171.457		
200.0	200.0	204.0	204.0	0.3	0.3	179.60	-40.1	0.3	40.1	39.4	0.68	58.656		
300.0	300.0	304.0	304.0	0.6	0.6	179.60	-40.1	0.3	40.1	38.9	1.13	35.380		
400.0	400.0	404.0	404.0	0.8	0.8	179.60	-40.1	0.3	40.1	38.5	1.58	25.329		
500.0	500.0	504.0	504.0	1.0	1.0	179.60	-40.1	0.3	40.1	38.0	2.03	19.725		
600.0	600.0	604.0	604.0	1.2	1.2	179.60	-40.1	0.3	40.1	37.6	2.48	16.152		
700.0	700.0	704.0	704.0	1.5	1.5	179.60	-40.1	0.3	40.1	37.1	2.93	13.675		
800.0	800.0	804.0	804.0	1.7	1.7	179.60	-40.1	0.3	40.1	36.7	3.38	11.856		
900.0	900.0	904.0	904.0	1.9	1.9	179.60	-40.1	0.3	40.1	36.2	3.83	10.465		
1,000.0	1,000.0	1,004.0	1,004.0	2.1	2.1	179.60	-40.1	0.3	40.1	35.8	4.28	9.365		
1,100.0	1,100.0	1,104.0	1,104.0	2.4	2.4	179.60	-40.1	0.3	40.1	35.4	4.73	8.475		
1,200.0	1,200.0	1,204.0	1,204.0	2.6	2.6	179.60	-40.1	0.3	40.1	34.9	5.18	7.739		
1,300.0	1,300.0	1,304.0	1,304.0	2.8	2.8	179.60	-40.1	0.3	40.1	34.5	5.63	7.121		
1,400.0	1,400.0	1,404.0	1,404.0	3.0	3.0	179.60	-40.1	0.3	40.1	34.0	6.08	6.595 CC, ES		
1,500.0	1,500.0	1,504.0	1,504.0	3.3	3.3	150.40	-40.1	0.3	41.6	35.1	6.52	6.375		
1,600.0	1,599.8	1,603.8	1,603.8	3.5	3.5	153.56	-40.1	0.3	46.2	39.2	6.96	6.636		
1,700.0	1,699.5	1,703.5	1,703.5	3.7	3.7	157.61	-40.1	0.3	54.2	46.8	7.40	7.321		
1,800.0	1,798.7	1,802.7	1,802.7	3.9	3.9	161.59	-40.1	0.3	65.6	57.8	7.82	8.384		
1,900.0	1,897.5	1,901.5	1,901.5	4.2	4.2	165.02	-40.1	0.3	80.6	72.4	8.24	9.780		
2,000.0	1,995.7	1,999.7	1,999.7	4.5	4.4	167.80	-40.1	0.3	99.0	90.3	8.66	11.428		
2,100.0	2,093.7	2,101.7	2,101.7	4.8	4.6	170.11	-38.3	0.5	116.7	107.6	9.12	12.798		
2,200.0	2,191.7	2,204.9	2,204.7	5.1	4.8	172.28	-32.8	1.0	131.1	121.5	9.58	13.692		
2,300.0	2,289.8	2,308.8	2,308.2	5.5	5.1	174.49	-23.5	1.9	142.3	132.2	10.04	14.172		
2,400.0	2,387.8	2,413.4	2,411.9	5.8	5.3	176.90	-10.5	3.3	150.3	139.7	10.51	14.294		
2,500.0	2,485.8	2,518.2	2,515.3	6.2	5.6	179.62	6.4	4.9	155.1	144.1	10.99	14.110		
2,600.0	2,583.9	2,622.3	2,617.4	6.6	5.9	-177.24	26.9	7.0	157.0	145.5	11.49	13.670		
2,700.0	2,681.9	2,721.9	2,714.8	6.9	6.2	-174.06	47.8	9.1	158.1	146.2	11.99	13.191		
2,800.0	2,780.0	2,821.5	2,812.2	7.3	6.5	-170.95	68.7	11.2	159.8	147.2	12.52	12.762		
2,900.0	2,878.0	2,921.1	2,909.5	7.7	6.8	-167.90	89.7	13.3	161.8	148.8	13.07	12.379		
3,000.0	2,976.0	3,020.7	3,006.9	8.1	7.1	-164.94	110.6	15.4	164.4	150.7	13.66	12.033		
3,100.0	3,074.1	3,120.4	3,104.2	8.5	7.5	-162.07	131.5	17.5	167.3	153.1	14.28	11.720		
3,200.0	3,172.1	3,220.0	3,201.6	8.9	7.9	-159.31	152.5	19.6	170.7	155.8	14.93	11.436		
3,300.0	3,270.1	3,319.6	3,299.0	9.3	8.2	-156.66	173.4	21.7	174.4	158.8	15.61	11.179		
3,400.0	3,368.2	3,419.2	3,396.3	9.7	8.6	-154.13	194.3	23.8	178.6	162.2	16.31	10.946		
3,500.0	3,466.2	3,518.8	3,493.7	10.1	9.0	-151.71	215.2	25.9	183.0	165.9	17.05	10.735		
3,600.0	3,564.2	3,618.4	3,591.1	10.5	9.4	-149.42	236.2	28.0	187.7	169.9	17.81	10.544		
3,700.0	3,662.3	3,718.0	3,688.4	10.9	9.8	-147.24	257.1	30.1	192.8	174.2	18.59	10.373		
3,800.0	3,760.3	3,817.6	3,785.8	11.3	10.2	-145.17	278.0	32.2	198.1	178.7	19.39	10.219		
3,900.0	3,858.4	3,917.2	3,883.1	11.7	10.6	-143.21	299.0	34.3	203.6	183.4	20.20	10.081		
4,000.0	3,956.4	4,016.8	3,980.5	12.2	11.0	-141.36	319.9	36.4	209.4	188.4	21.03	9.958		
4,100.0	4,054.4	4,116.4	4,077.9	12.6	11.4	-139.61	340.8	38.5	215.4	193.5	21.87	9.848		
4,200.0	4,152.5	4,216.1	4,175.2	13.0	11.8	-137.95	361.7	40.6	221.6	198.8	22.72	9.751		
4,300.0	4,250.5	4,315.7	4,272.6	13.4	12.2	-136.38	382.7	42.7	227.9	204.3	23.58	9.665		
4,400.0	4,348.5	4,415.3	4,370.0	13.8	12.6	-134.90	403.6	44.8	234.4	210.0	24.45	9.589		
4,500.0	4,446.6	4,514.9	4,467.3	14.2	13.1	-133.50	424.5	46.9	241.1	215.8	25.32	9.522		
4,600.0	4,544.6	4,614.5	4,564.7	14.7	13.5	-132.18	445.5	49.1	247.9	221.7	26.20	9.463		
4,700.0	4,642.6	4,714.1	4,662.1	15.1	13.9	-130.93	466.4	51.2	254.8	227.7	27.07	9.411		
4,800.0	4,740.7	4,813.7	4,759.4	15.5	14.3	-129.74	487.3	53.3	261.8	233.9	27.96	9.365		
4,900.0	4,838.7	4,913.3	4,856.8	15.9	14.7	-128.62	508.2	55.4	269.0	240.1	28.84	9.326		
5,000.0	4,936.8	5,012.9	4,954.1	16.3	15.2	-127.55	529.2	57.5	276.2	246.5	29.73	9.292		
5,100.0	5,034.8	5,112.5	5,051.5	16.8	15.6	-126.54	550.1	59.6	283.5	252.9	30.61	9.262		

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 F21-J24-22HNB
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal F21-J24-22HNB	<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	
5,200.0	5,132.8	5,212.1	5,148.9	17.2	16.0	-125.58	571.0	61.7	290.9	259.4	31.50	9.236	
5,300.0	5,230.9	5,311.8	5,246.2	17.6	16.5	-124.67	592.0	63.8	298.4	266.0	32.39	9.214	
5,400.0	5,329.2	5,410.5	5,342.8	18.0	16.9	-123.75	612.3	65.8	305.2	271.9	33.22	9.186	
5,500.0	5,428.1	5,508.6	5,439.4	18.2	17.2	-122.87	629.6	67.6	310.6	276.7	33.89	9.163	
5,600.0	5,527.5	5,606.9	5,536.7	18.5	17.4	-122.07	643.7	69.0	314.6	280.2	34.48	9.125	
5,700.0	5,627.2	5,705.5	5,634.6	18.7	17.7	-121.35	654.5	70.0	317.4	282.4	34.99	9.069	
5,800.0	5,727.1	5,804.2	5,733.0	18.9	17.9	-120.69	661.9	70.8	318.7	283.3	35.42	8.998	
5,900.0	5,827.1	5,903.0	5,831.8	19.0	18.1	-89.69	665.9	71.2	318.8	283.0	35.82	8.900	
6,000.0	5,927.1	6,002.3	5,931.1	19.1	18.2	-89.55	666.7	71.3	318.7	282.6	36.13	8.822	
6,100.0	6,026.6	6,102.4	6,031.1	19.2	18.3	92.13	666.3	71.3	318.9	282.5	36.40	8.761	
6,200.0	6,123.0	6,205.1	6,132.7	19.1	18.3	94.33	651.9	71.4	319.6	283.2	36.40	8.782	
6,300.0	6,212.6	6,310.5	6,231.8	18.8	18.1	96.39	616.8	71.6	320.8	284.8	35.94	8.925	
6,400.0	6,292.2	6,418.4	6,324.0	18.4	17.7	98.21	560.9	72.0	322.2	287.1	35.10	9.178	
6,500.0	6,358.8	6,528.7	6,404.2	18.0	17.2	99.72	485.5	72.5	323.6	289.6	34.03	9.510	
6,600.0	6,410.0	6,641.0	6,467.7	17.5	16.7	100.84	393.1	73.1	324.9	291.9	32.92	9.867	
6,700.0	6,443.9	6,754.7	6,510.3	17.1	16.3	101.51	288.0	73.7	325.7	293.7	32.06	10.161	
6,800.0	6,469.8	6,855.7	6,536.5	16.7	16.0	101.52	190.5	74.4	325.9	294.1	31.76	10.261	
6,900.0	6,485.1	6,969.1	6,555.2	16.4	16.1	101.70	78.8	75.1	326.2	294.4	31.82	10.251	
7,000.0	6,486.0	7,072.9	6,556.0	16.3	16.3	101.67	-25.0	75.8	326.3	293.9	32.41	10.069	
7,100.0	6,486.0	7,172.9	6,556.0	16.7	16.8	101.66	-124.9	76.4	326.4	293.0	33.39	9.776	
7,200.0	6,486.0	7,272.9	6,556.0	17.6	17.4	101.66	-224.9	77.1	326.6	291.8	34.77	9.393	
7,300.0	6,486.0	7,372.9	6,556.0	18.5	18.3	101.66	-324.9	77.7	326.7	290.2	36.48	8.956	
7,400.0	6,486.0	7,472.9	6,556.0	19.6	19.3	101.65	-424.9	78.4	326.8	288.3	38.49	8.492	
7,500.0	6,486.0	7,572.9	6,556.0	20.8	20.4	101.65	-524.9	79.0	326.9	286.2	40.75	8.023	
7,600.0	6,486.0	7,672.9	6,556.0	22.1	21.7	101.64	-624.9	79.7	327.1	283.8	43.22	7.567	
7,700.0	6,486.0	7,772.9	6,556.0	23.5	23.0	101.64	-724.9	80.3	327.2	281.3	45.88	7.132	
7,800.0	6,486.0	7,872.9	6,556.0	25.0	24.4	101.63	-824.9	81.0	327.3	278.6	48.68	6.724	
7,900.0	6,486.0	7,972.9	6,556.0	26.5	25.9	101.63	-924.9	81.6	327.4	275.8	51.61	6.345	
8,000.0	6,486.0	8,072.9	6,556.0	28.0	27.4	101.62	-1,024.9	82.3	327.6	272.9	54.64	5.995	
8,100.0	6,486.0	8,172.9	6,556.0	29.6	29.0	101.62	-1,124.9	82.9	327.7	269.9	57.76	5.673	
8,200.0	6,486.0	8,272.9	6,556.0	31.2	30.6	101.61	-1,224.9	83.6	327.8	266.9	60.96	5.378	
8,300.0	6,486.0	8,372.9	6,556.0	32.9	32.3	101.61	-1,324.9	84.2	327.9	263.7	64.22	5.107	
8,400.0	6,486.0	8,472.9	6,556.0	34.6	34.0	101.61	-1,424.9	84.9	328.1	260.5	67.53	4.858	
8,500.0	6,486.0	8,572.9	6,556.0	36.3	35.7	101.60	-1,524.9	85.5	328.2	257.3	70.89	4.629	
8,600.0	6,486.0	8,672.9	6,556.0	38.0	37.4	101.60	-1,624.9	86.2	328.3	254.0	74.30	4.419	
8,700.0	6,486.0	8,772.9	6,556.0	39.8	39.2	101.59	-1,724.9	86.9	328.4	250.7	77.73	4.225	
8,800.0	6,486.0	8,872.9	6,556.0	41.5	40.9	101.59	-1,824.9	87.5	328.6	247.4	81.20	4.046	
8,900.0	6,486.0	8,972.9	6,556.0	43.3	42.7	101.58	-1,924.9	88.2	328.7	244.0	84.70	3.881	
9,000.0	6,486.0	9,072.9	6,556.0	45.1	44.5	101.58	-2,024.9	88.8	328.8	240.6	88.21	3.727	
9,100.0	6,486.0	9,172.9	6,556.0	46.9	46.3	101.57	-2,124.9	89.5	328.9	237.2	91.75	3.585	
9,200.0	6,486.0	9,272.9	6,556.0	48.7	48.1	101.57	-2,224.9	90.1	329.1	233.8	95.31	3.453	
9,300.0	6,486.0	9,372.9	6,556.0	50.5	49.9	101.57	-2,324.9	90.8	329.2	230.3	98.89	3.329	
9,400.0	6,486.0	9,472.9	6,556.0	52.3	51.7	101.56	-2,424.9	91.4	329.3	226.8	102.48	3.214	
9,500.0	6,486.0	9,572.9	6,556.0	54.1	53.6	101.56	-2,524.9	92.1	329.4	223.4	106.08	3.106	
9,600.0	6,486.0	9,672.9	6,556.0	56.0	55.4	101.55	-2,624.9	92.7	329.6	219.9	109.70	3.004	
9,700.0	6,486.0	9,772.9	6,556.0	57.8	57.3	101.55	-2,724.9	93.4	329.7	216.4	113.32	2.909	
9,800.0	6,486.0	9,872.9	6,556.0	59.7	59.1	101.54	-2,824.9	94.0	329.8	212.9	116.96	2.820	
9,900.0	6,486.0	9,972.9	6,556.0	61.5	61.0	101.54	-2,924.9	94.7	329.9	209.3	120.61	2.736	
10,000.0	6,486.0	10,072.9	6,556.0	63.4	62.8	101.53	-3,024.9	95.3	330.1	205.8	124.26	2.656	
10,100.0	6,486.0	10,172.9	6,556.0	65.2	64.7	101.53	-3,124.9	96.0	330.2	202.3	127.92	2.581	
10,200.0	6,486.0	10,272.9	6,556.0	67.1	66.5	101.53	-3,224.9	96.6	330.3	198.7	131.59	2.510	
10,300.0	6,486.0	10,372.9	6,556.0	69.0	68.4	101.52	-3,324.9	97.3	330.4	195.2	135.27	2.443	

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 F21-J24-22HNB
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal F21-J24-22HNB	<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	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth 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	6,486.0	10,472.9	6,556.0	70.8	70.3	101.52	-3,424.9		97.9	330.6	191.6	138.95	2.379	
10,500.0	6,486.0	10,572.9	6,556.0	72.7	72.2	101.51	-3,524.9		98.6	330.7	188.1	142.63	2.318	
10,600.0	6,486.0	10,672.9	6,556.0	74.6	74.0	101.51	-3,624.9		99.2	330.8	184.5	146.32	2.261	
10,700.0	6,486.0	10,772.9	6,556.0	76.4	75.9	101.50	-3,724.9		99.9	330.9	180.9	150.02	2.206	
10,800.0	6,486.0	10,872.9	6,556.0	78.3	77.8	101.50	-3,824.9		100.5	331.1	177.3	153.72	2.154	
10,900.0	6,486.0	10,972.9	6,556.0	80.2	79.7	101.49	-3,924.9		101.2	331.2	173.8	157.43	2.104	
11,000.0	6,486.0	11,072.9	6,556.0	82.1	81.6	101.49	-4,024.9		101.8	331.3	170.2	161.13	2.056	
11,100.0	6,486.0	11,172.9	6,556.0	84.0	83.4	101.49	-4,124.9		102.5	331.4	166.6	164.85	2.011	
11,114.0	6,486.0	11,180.4	6,556.0	84.2	83.6	101.49	-4,132.4		102.5	331.5	166.3	165.25	2.006 SF	

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal F21-J24-22HNB
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal F21-J24-22HNB	<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 Federal 31-22 Pad Sec.22-T5N-R63W - Perkins 23-22 (Exist.) - Wellbore #1 - Wellbore #1													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 7000-UNKNOWN													<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		
8,800.0	6,486.0	6,479.0	6,479.0	41.5	129.6	-90.00	-2,734.2	545.5	921.4	750.7	170.79	5.395		
8,900.0	6,486.0	6,479.0	6,479.0	43.3	129.6	-90.00	-2,734.2	545.5	822.6	650.0	172.57	4.766		
9,000.0	6,486.0	6,479.0	6,479.0	45.1	129.6	-90.00	-2,734.2	545.5	724.0	549.6	174.36	4.152		
9,100.0	6,486.0	6,479.0	6,479.0	46.9	129.6	-90.00	-2,734.2	545.5	625.8	449.6	176.17	3.552		
9,200.0	6,486.0	6,479.0	6,479.0	48.7	129.6	-90.00	-2,734.2	545.5	528.4	350.4	177.98	2.969		
9,300.0	6,486.0	6,479.0	6,479.0	50.5	129.6	-90.00	-2,734.2	545.5	432.1	252.3	179.80	2.403		
9,400.0	6,486.0	6,479.0	6,479.0	52.3	129.6	-90.00	-2,734.2	545.5	338.0	156.3	181.63	1.861		
9,500.0	6,486.0	6,479.0	6,479.0	54.1	129.6	-90.00	-2,734.2	545.5	248.5	65.0	183.47	1.354	Level 3	
9,600.0	6,486.0	6,479.0	6,479.0	56.0	129.6	-90.00	-2,734.2	545.5	171.1	-14.2	185.31	0.923	Level 1	
9,700.0	6,486.0	6,479.0	6,479.0	57.8	129.6	-90.00	-2,734.2	545.5	129.6	-57.5	187.16	0.693	Level 1	
9,712.4	6,486.0	6,479.0	6,479.0	58.0	129.6	-90.00	-2,734.2	545.5	129.0	-58.4	187.39	0.689	Level 1, CC, ES, SF	
9,800.0	6,486.0	6,479.0	6,479.0	59.7	129.6	-90.00	-2,734.2	545.5	156.0	-33.0	189.01	0.825	Level 1	
9,900.0	6,486.0	6,479.0	6,479.0	61.5	129.6	-90.00	-2,734.2	545.5	227.7	36.8	190.87	1.193	Level 2	
10,000.0	6,486.0	6,479.0	6,479.0	63.4	129.6	-90.00	-2,734.2	545.5	315.2	122.5	192.73	1.636		
10,100.0	6,486.0	6,479.0	6,479.0	65.2	129.6	-90.00	-2,734.2	545.5	408.5	213.9	194.59	2.099		
10,200.0	6,486.0	6,479.0	6,479.0	67.1	129.6	-90.00	-2,734.2	545.5	504.4	308.0	196.46	2.568		
10,300.0	6,486.0	6,479.0	6,479.0	69.0	129.6	-90.00	-2,734.2	545.5	601.6	403.3	198.33	3.033		
10,400.0	6,486.0	6,479.0	6,479.0	70.8	129.6	-90.00	-2,734.2	545.5	699.6	499.4	200.20	3.495		
10,500.0	6,486.0	6,479.0	6,479.0	72.7	129.6	-90.00	-2,734.2	545.5	798.1	596.0	202.08	3.950		
10,600.0	6,486.0	6,479.0	6,479.0	74.6	129.6	-90.00	-2,734.2	545.5	897.0	693.0	203.96	4.398		
10,700.0	6,486.0	6,479.0	6,479.0	76.4	129.6	-90.00	-2,734.2	545.5	996.0	790.2	205.84	4.839		

<b>Company:</b>	BONANZA CREEK ENERGY OPERATING	<b>Local Co-ordinate Reference:</b>	Well North Platte Federal F21-J24-22HNB
<b>Project:</b>	SEC.22-T5N-R63W	<b>TVD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Reference Site:</b>	North Platte F-22 Pad Sec.22-T5N-R63W	<b>MD Reference:</b>	WELI @ 4671.0ft (RKB - 13')
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte Federal F21-J24-22HNB	<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 WELI @ 4671.0ft (RKB - 13')  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °

Coordinates are relative to: North Platte Federal F21-J24-22HNB  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.69°



Coordinates are relative to: North Platte Federal F21-J24-22HNB  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.69°

