

BONANZA CREEK ENERGY OPERATING

Well Name: **North Platte E-A-28HC**

Surface Location: North Platte E-A-28HC Pad Sec.28-T5N-R63W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

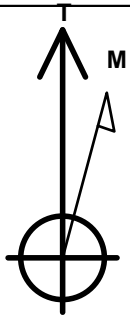
Ground Elevation: 4551.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1377718.67	3293015.44	40.365470	-104.448430	

RKB - 13' WELL @ 4564.0ft (RKB - 13')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
BHL 470'FNL & 10'FEL	6499.0	4003.8	-551.7	Point
CASING POINT 631'FSL & 10'FWL	6499.0	-171.2	-557.3	Point



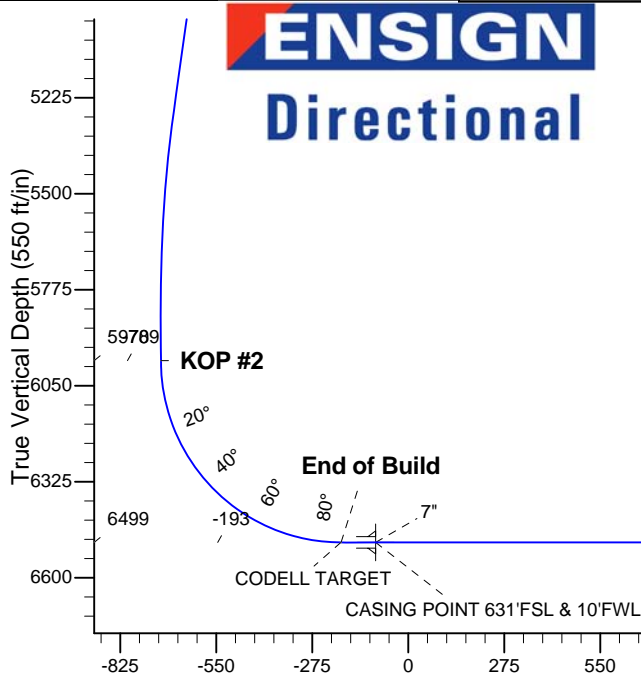
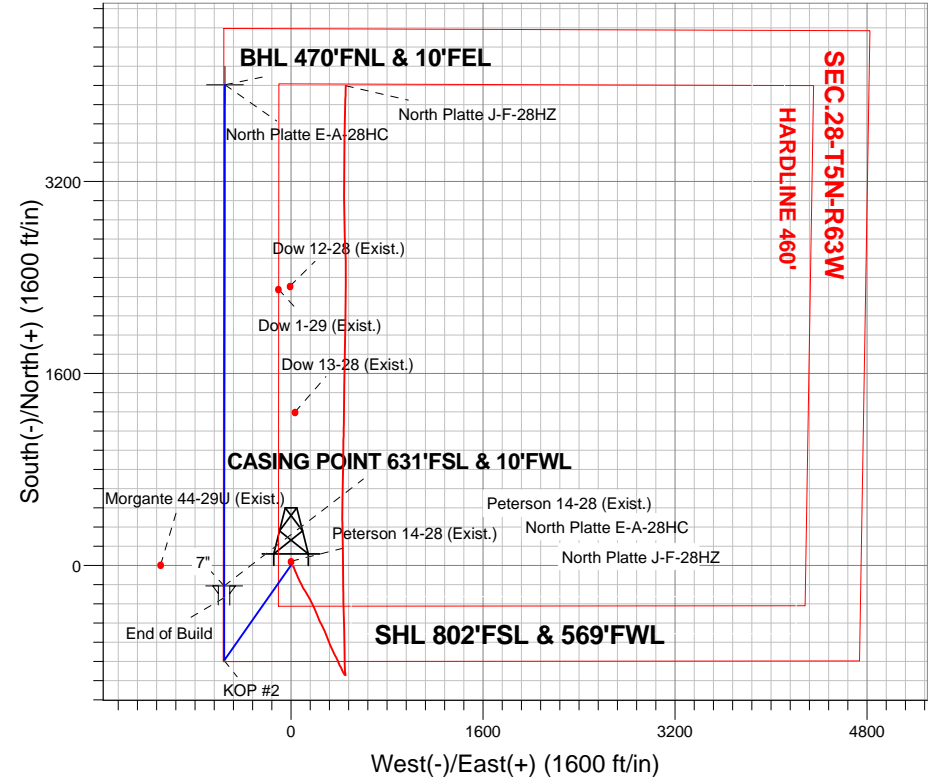
Azimuths to True North
Magnetic North: 8.47°

Magnetic Field
Strength: 52978.8srT
Dip Angle: 67.02°
Date: 1/25/2013
Model: IGRF2010

North Platte E-A-28HC Pad Sec.28-T5N-R63W
North Platte E-A-28HC
Plan #1 (1-25-13)
12:02, January 27 2013

ANNOTATIONS

TVD	MD	Annotation
200.0	200.0	KOP #1
5978.1	6066.9	KOP #2
6499.0	6885.1	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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	742.5	10.85	215.16	739.2	-41.9	-29.5	2.00	215.16	-37.4	
4	5346.3	10.85	215.16	5260.8	-750.3	-528.5	0.00	0.00	-671.2	
5	5888.8	0.00	0.00	5800.0	-792.2	-558.0	2.00	180.00	-708.6	
6	6066.9	0.00	0.00	5978.1	-792.2	-558.0	0.00	0.00	-708.6	
7	6885.1	90.00	0.06	6499.0	-271.3	-557.4	11.00	0.06	-192.7	
8	6985.2	90.00	0.06	6499.0	-171.2	-557.3	0.00	0.00	-93.5	CASING POINT 631'FSL & 10'FWL
9	6986.8	90.00	0.08	6499.0	-169.6	-557.3	1.00	90.00	-91.9	
10	11160.2	90.00	0.08	6499.0	4003.8	-551.7	0.00	0.00	4041.6	BHL 470'FNL & 10'FEL

Vertical Section at 352.15° (550 ft/in)



BONANZA CREEK ENERGY OPERATING

SEC.28-T5N-R63W

North Platte E-A-28HC Pad Sec.28-T5N-R63W

North Platte E-A-28HC

Wellbore #1

Plan: Plan #1 (1-25-13)

Standard Planning Report

27 January, 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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
742.5	10.85	215.16	739.2	-41.9	-29.5	2.00	2.00	0.00	215.16	
5,346.3	10.85	215.16	5,260.8	-750.3	-528.5	0.00	0.00	0.00	0.00	
5,888.8	0.00	0.00	5,800.0	-792.2	-558.0	2.00	-2.00	0.00	180.00	
6,066.9	0.00	0.00	5,978.1	-792.2	-558.0	0.00	0.00	0.00	0.00	
6,885.1	90.00	0.06	6,499.0	-271.3	-557.4	11.00	11.00	0.00	0.06	
6,985.2	90.00	0.06	6,499.0	-171.2	-557.3	0.00	0.00	0.00	0.00	CASING POINT 63
6,986.8	90.00	0.08	6,499.0	-169.6	-557.3	1.00	0.00	1.00	90.00	
11,160.2	90.00	0.08	6,499.0	4,003.8	-551.7	0.00	0.00	0.00	0.00	BHL 470'FNL & 10'

Database:	Landmark	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Project:	SEC.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site:	North Platte E-A-28HC Pad	North Reference:	True
	Sec.28-T5N-R63W		
Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-25-13)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP #1									
300.0	2.00	215.16	300.0	-1.4	-1.0	-1.3	2.00	2.00	0.00
400.0	4.00	215.16	399.8	-5.7	-4.0	-5.1	2.00	2.00	0.00
500.0	6.00	215.16	499.5	-12.8	-9.0	-11.5	2.00	2.00	0.00
600.0	8.00	215.16	598.7	-22.8	-16.1	-20.4	2.00	2.00	0.00
700.0	10.00	215.16	697.5	-35.6	-25.1	-31.8	2.00	2.00	0.00
742.5	10.85	215.16	739.2	-41.9	-29.5	-37.4	2.00	2.00	0.00
800.0	10.85	215.16	795.7	-50.7	-35.7	-45.4	0.00	0.00	0.00
900.0	10.85	215.16	893.9	-66.1	-46.6	-59.1	0.00	0.00	0.00
1,000.0	10.85	215.16	992.2	-81.5	-57.4	-72.9	0.00	0.00	0.00
1,100.0	10.85	215.16	1,090.4	-96.9	-68.2	-86.7	0.00	0.00	0.00
1,200.0	10.85	215.16	1,188.6	-112.3	-79.1	-100.4	0.00	0.00	0.00
1,300.0	10.85	215.16	1,286.8	-127.7	-89.9	-114.2	0.00	0.00	0.00
1,400.0	10.85	215.16	1,385.0	-143.1	-100.8	-128.0	0.00	0.00	0.00
1,500.0	10.85	215.16	1,483.2	-158.4	-111.6	-141.7	0.00	0.00	0.00
1,600.0	10.85	215.16	1,581.4	-173.8	-122.4	-155.5	0.00	0.00	0.00
1,700.0	10.85	215.16	1,679.6	-189.2	-133.3	-169.3	0.00	0.00	0.00
1,800.0	10.85	215.16	1,777.9	-204.6	-144.1	-183.0	0.00	0.00	0.00
1,900.0	10.85	215.16	1,876.1	-220.0	-155.0	-196.8	0.00	0.00	0.00
2,000.0	10.85	215.16	1,974.3	-235.4	-165.8	-210.5	0.00	0.00	0.00
2,100.0	10.85	215.16	2,072.5	-250.8	-176.6	-224.3	0.00	0.00	0.00
2,200.0	10.85	215.16	2,170.7	-266.2	-187.5	-238.1	0.00	0.00	0.00
2,300.0	10.85	215.16	2,268.9	-281.5	-198.3	-251.8	0.00	0.00	0.00
2,400.0	10.85	215.16	2,367.1	-296.9	-209.2	-265.6	0.00	0.00	0.00
2,500.0	10.85	215.16	2,465.3	-312.3	-220.0	-279.4	0.00	0.00	0.00
2,600.0	10.85	215.16	2,563.6	-327.7	-230.8	-293.1	0.00	0.00	0.00
2,700.0	10.85	215.16	2,661.8	-343.1	-241.7	-306.9	0.00	0.00	0.00
2,800.0	10.85	215.16	2,760.0	-358.5	-252.5	-320.7	0.00	0.00	0.00
2,900.0	10.85	215.16	2,858.2	-373.9	-263.3	-334.4	0.00	0.00	0.00
3,000.0	10.85	215.16	2,956.4	-389.3	-274.2	-348.2	0.00	0.00	0.00
3,100.0	10.85	215.16	3,054.6	-404.7	-285.0	-362.0	0.00	0.00	0.00
3,200.0	10.85	215.16	3,152.8	-420.0	-295.9	-375.7	0.00	0.00	0.00
3,300.0	10.85	215.16	3,251.0	-435.4	-306.7	-389.5	0.00	0.00	0.00
3,400.0	10.85	215.16	3,349.3	-450.8	-317.5	-403.3	0.00	0.00	0.00
3,500.0	10.85	215.16	3,447.5	-466.2	-328.4	-417.0	0.00	0.00	0.00
3,600.0	10.85	215.16	3,545.7	-481.6	-339.2	-430.8	0.00	0.00	0.00
3,700.0	10.85	215.16	3,643.9	-497.0	-350.1	-444.6	0.00	0.00	0.00
3,800.0	10.85	215.16	3,742.1	-512.4	-360.9	-458.3	0.00	0.00	0.00
3,900.0	10.85	215.16	3,840.3	-527.8	-371.7	-472.1	0.00	0.00	0.00
4,000.0	10.85	215.16	3,938.5	-543.2	-382.6	-485.9	0.00	0.00	0.00
4,100.0	10.85	215.16	4,036.7	-558.5	-393.4	-499.6	0.00	0.00	0.00
4,200.0	10.85	215.16	4,135.0	-573.9	-404.3	-513.4	0.00	0.00	0.00
4,300.0	10.85	215.16	4,233.2	-589.3	-415.1	-527.1	0.00	0.00	0.00
4,400.0	10.85	215.16	4,331.4	-604.7	-425.9	-540.9	0.00	0.00	0.00
4,500.0	10.85	215.16	4,429.6	-620.1	-436.8	-554.7	0.00	0.00	0.00
4,600.0	10.85	215.16	4,527.8	-635.5	-447.6	-568.4	0.00	0.00	0.00
4,700.0	10.85	215.16	4,626.0	-650.9	-458.5	-582.2	0.00	0.00	0.00
4,800.0	10.85	215.16	4,724.2	-666.3	-469.3	-596.0	0.00	0.00	0.00
4,900.0	10.85	215.16	4,822.4	-681.7	-480.1	-609.7	0.00	0.00	0.00
5,000.0	10.85	215.16	4,920.7	-697.0	-491.0	-623.5	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well North Platte E-A-28HC
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Project:	SEC.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site:	North Platte E-A-28HC Pad	North Reference:	True
	Sec.28-T5N-R63W		
Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-25-13)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,100.0	10.85	215.16	5,018.9	-712.4	-501.8	-637.3	0.00	0.00	0.00
5,200.0	10.85	215.16	5,117.1	-727.8	-512.7	-651.0	0.00	0.00	0.00
5,300.0	10.85	215.16	5,215.3	-743.2	-523.5	-664.8	0.00	0.00	0.00
5,346.3	10.85	215.16	5,260.8	-750.3	-528.5	-671.2	0.00	0.00	0.00
5,400.0	9.78	215.16	5,313.6	-758.2	-534.0	-678.2	2.00	-2.00	0.00
5,500.0	7.78	215.16	5,412.4	-770.7	-542.8	-689.4	2.00	-2.00	0.00
5,600.0	5.78	215.16	5,511.7	-780.3	-549.6	-698.0	2.00	-2.00	0.00
5,700.0	3.78	215.16	5,611.4	-787.1	-554.4	-704.1	2.00	-2.00	0.00
5,800.0	1.78	215.16	5,711.2	-791.1	-557.2	-707.6	2.00	-2.00	0.00
5,888.8	0.00	0.00	5,800.0	-792.2	-558.0	-708.6	2.00	-2.00	0.00
5,900.0	0.00	0.00	5,811.2	-792.2	-558.0	-708.6	0.00	0.00	0.00
6,000.0	0.00	0.00	5,911.2	-792.2	-558.0	-708.6	0.00	0.00	0.00
6,066.9	0.00	0.00	5,978.1	-792.2	-558.0	-708.6	0.00	0.00	0.00
KOP #2									
6,100.0	3.64	0.06	6,011.2	-791.1	-558.0	-707.6	11.00	11.00	0.00
6,200.0	14.64	0.06	6,109.8	-775.3	-558.0	-691.9	11.00	11.00	0.00
6,300.0	25.64	0.06	6,203.5	-740.9	-557.9	-657.8	11.00	11.00	0.00
6,400.0	36.64	0.06	6,289.0	-689.3	-557.9	-606.7	11.00	11.00	0.00
6,500.0	47.64	0.06	6,363.0	-622.3	-557.8	-540.3	11.00	11.00	0.00
6,600.0	58.64	0.06	6,422.9	-542.4	-557.7	-461.2	11.00	11.00	0.00
6,700.0	69.64	0.06	6,466.5	-452.5	-557.6	-372.2	11.00	11.00	0.00
6,800.0	80.64	0.06	6,492.1	-356.0	-557.5	-276.6	11.00	11.00	0.00
6,885.1	90.00	0.06	6,499.0	-271.3	-557.4	-192.7	11.00	11.00	0.00
End of Build - CODELL TARGET									
6,900.0	90.00	0.06	6,499.0	-256.4	-557.4	-177.9	0.00	0.00	0.00
6,985.2	90.00	0.06	6,499.0	-171.2	-557.3	-93.5	0.00	0.00	0.00
7" - CASING POINT 631'FSL & 10'FWL									
6,986.8	90.00	0.08	6,499.0	-169.6	-557.3	-91.9	1.00	0.00	1.00
7,000.0	90.00	0.08	6,499.0	-156.4	-557.3	-78.9	0.00	0.00	0.00
7,100.0	90.00	0.08	6,499.0	-56.4	-557.2	20.2	0.00	0.00	0.00
7,200.0	90.00	0.08	6,499.0	43.6	-557.0	119.2	0.00	0.00	0.00
7,300.0	90.00	0.08	6,499.0	143.6	-556.9	218.3	0.00	0.00	0.00
7,400.0	90.00	0.08	6,499.0	243.6	-556.8	317.3	0.00	0.00	0.00
7,500.0	90.00	0.08	6,499.0	343.6	-556.6	416.4	0.00	0.00	0.00
7,600.0	90.00	0.08	6,499.0	443.6	-556.5	515.4	0.00	0.00	0.00
7,700.0	90.00	0.08	6,499.0	543.6	-556.4	614.4	0.00	0.00	0.00
7,800.0	90.00	0.08	6,499.0	643.6	-556.2	713.5	0.00	0.00	0.00
7,900.0	90.00	0.08	6,499.0	743.6	-556.1	812.5	0.00	0.00	0.00
8,000.0	90.00	0.08	6,499.0	843.6	-556.0	911.6	0.00	0.00	0.00
8,100.0	90.00	0.08	6,499.0	943.6	-555.8	1,010.6	0.00	0.00	0.00
8,200.0	90.00	0.08	6,499.0	1,043.6	-555.7	1,109.7	0.00	0.00	0.00
8,300.0	90.00	0.08	6,499.0	1,143.6	-555.5	1,208.7	0.00	0.00	0.00
8,400.0	90.00	0.08	6,499.0	1,243.6	-555.4	1,307.8	0.00	0.00	0.00
8,500.0	90.00	0.08	6,499.0	1,343.6	-555.3	1,406.8	0.00	0.00	0.00
8,600.0	90.00	0.08	6,499.0	1,443.6	-555.1	1,505.9	0.00	0.00	0.00
8,700.0	90.00	0.08	6,499.0	1,543.6	-555.0	1,604.9	0.00	0.00	0.00
8,800.0	90.00	0.08	6,499.0	1,643.6	-554.9	1,703.9	0.00	0.00	0.00
8,900.0	90.00	0.08	6,499.0	1,743.6	-554.7	1,803.0	0.00	0.00	0.00
9,000.0	90.00	0.08	6,499.0	1,843.6	-554.6	1,902.0	0.00	0.00	0.00
9,100.0	90.00	0.08	6,499.0	1,943.6	-554.5	2,001.1	0.00	0.00	0.00
9,200.0	90.00	0.08	6,499.0	2,043.6	-554.3	2,100.1	0.00	0.00	0.00
9,300.0	90.00	0.08	6,499.0	2,143.6	-554.2	2,199.2	0.00	0.00	0.00
9,400.0	90.00	0.08	6,499.0	2,243.6	-554.1	2,298.2	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Project:	SEC.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site:	North Platte E-A-28HC Pad	North Reference:	True
	Sec.28-T5N-R63W		
Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-25-13)		

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)
9,500.0	90.00	0.08	6,499.0	2,343.6	-553.9	2,397.3	0.00	0.00	0.00
9,600.0	90.00	0.08	6,499.0	2,443.6	-553.8	2,496.3	0.00	0.00	0.00
9,700.0	90.00	0.08	6,499.0	2,543.6	-553.6	2,595.4	0.00	0.00	0.00
9,800.0	90.00	0.08	6,499.0	2,643.6	-553.5	2,694.4	0.00	0.00	0.00
9,900.0	90.00	0.08	6,499.0	2,743.6	-553.4	2,793.4	0.00	0.00	0.00
10,000.0	90.00	0.08	6,499.0	2,843.6	-553.2	2,892.5	0.00	0.00	0.00
10,100.0	90.00	0.08	6,499.0	2,943.6	-553.1	2,991.5	0.00	0.00	0.00
10,200.0	90.00	0.08	6,499.0	3,043.6	-553.0	3,090.6	0.00	0.00	0.00
10,300.0	90.00	0.08	6,499.0	3,143.6	-552.8	3,189.6	0.00	0.00	0.00
10,400.0	90.00	0.08	6,499.0	3,243.6	-552.7	3,288.7	0.00	0.00	0.00
10,500.0	90.00	0.08	6,499.0	3,343.6	-552.6	3,387.7	0.00	0.00	0.00
10,600.0	90.00	0.08	6,499.0	3,443.6	-552.4	3,486.8	0.00	0.00	0.00
10,700.0	90.00	0.08	6,499.0	3,543.6	-552.3	3,585.8	0.00	0.00	0.00
10,800.0	90.00	0.08	6,499.0	3,643.6	-552.2	3,684.9	0.00	0.00	0.00
10,900.0	90.00	0.08	6,499.0	3,743.6	-552.0	3,783.9	0.00	0.00	0.00
11,000.0	90.00	0.08	6,499.0	3,843.6	-551.9	3,882.9	0.00	0.00	0.00
11,100.0	90.00	0.08	6,499.0	3,943.6	-551.7	3,982.0	0.00	0.00	0.00
11,160.2	90.00	0.08	6,499.0	4,003.8	-551.7	4,041.6	0.00	0.00	0.00
BHL 470'FNL & 10'FEL									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL 470'FNL & 10'FE	0.00	0.00	6,499.0	4,003.8	-551.7	1,381,715.46	3,292,416.36	40.376460	-104.450410
- plan hits target center									
- Point									
CASING POINT 631'F	0.00	0.00	6,499.0	-171.2	-557.3	1,377,540.87	3,292,460.20	40.365000	-104.450430
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
6,985.2	6,499.0	7"	7	7-1/2	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,885.1	6,499.0	CODELL TARGET		0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Project:	SEC.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site:	North Platte E-A-28HC Pad	North Reference:	True
	Sec.28-T5N-R63W		
Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-25-13)		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP #1
6,066.9	5,978.1	-792.2	-558.0	KOP #2
6,885.1	6,499.0	-271.3	-557.4	End of Build



BONANZA CREEK ENERGY OPERATING

SEC.28-T5N-R63W

North Platte E-A-28HC Pad Sec.28-T5N-R63W

North Platte E-A-28HC

Wellbore #1

Plan #1 (1-25-13)

Anticollision Report

27 January, 2013

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Reference Site:	North Platte E-A-28HC Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (1-25-13)	Offset TVD Reference:	Offset Datum

Offset Design											North Platte E-A-28HC Pad Sec.28-T5N-R63W - Dow 12-28 (Exist.) - Wellbore #1 - Wellbore #1			Offset Site Error:		0.0 ft	
Survey Program: 6600-UNKNOWN													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)						
9,900.0	6,499.0	6,476.0	6,476.0	59.8	129.5	90.00	2,327.9	-8.4	685.4	496.5	188.92	3.628					
10,000.0	6,499.0	6,476.0	6,476.0	61.6	129.5	90.00	2,327.9	-8.4	750.2	559.4	190.75	3.933					
10,100.0	6,499.0	6,476.0	6,476.0	63.4	129.5	90.00	2,327.9	-8.4	822.1	629.5	192.59	4.268					
10,200.0	6,499.0	6,476.0	6,476.0	65.3	129.5	90.00	2,327.9	-8.4	899.3	704.9	194.44	4.625					
10,300.0	6,499.0	6,476.0	6,476.0	67.1	129.5	90.00	2,327.9	-8.4	980.7	784.4	196.29	4.996					

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Reference Site:	North Platte E-A-28HC Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (1-25-13)	Offset TVD Reference:	Offset Datum

Offset Design										North Platte E-A-28HC Pad Sec.28-T5N-R63W - Dow 1-29 (Exist.) - Wellbore #1 - Wellbore #1				Offset Site Error:	0.0 ft
Survey Program: 6600-UNKNOWN														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
8,600.0	6,499.0	6,476.0	6,476.0	36.8	129.5	90.00	2,302.4	-105.9	969.3	803.4	165.86	5.844			
8,700.0	6,499.0	6,476.0	6,476.0	38.5	129.5	90.00	2,302.4	-105.9	881.8	714.2	167.55	5.263			
8,800.0	6,499.0	6,476.0	6,476.0	40.2	129.5	90.00	2,302.4	-105.9	797.3	628.0	169.26	4.710			
8,900.0	6,499.0	6,476.0	6,476.0	41.9	129.5	90.00	2,302.4	-105.9	716.8	545.8	170.99	4.192			
9,000.0	6,499.0	6,476.0	6,476.0	43.6	129.5	90.00	2,302.4	-105.9	641.8	469.1	172.73	3.716			
9,100.0	6,499.0	6,476.0	6,476.0	45.4	129.5	90.00	2,302.4	-105.9	574.5	400.0	174.49	3.292			
9,200.0	6,499.0	6,476.0	6,476.0	47.2	129.5	90.00	2,302.4	-105.9	517.8	341.5	176.26	2.938			
9,300.0	6,499.0	6,476.0	6,476.0	48.9	129.5	90.00	2,302.4	-105.9	475.6	297.6	178.04	2.671			
9,400.0	6,499.0	6,476.0	6,476.0	50.7	129.5	90.00	2,302.4	-105.9	452.0	272.2	179.83	2.514			
9,459.5	6,499.0	6,476.0	6,476.0	51.8	129.5	90.00	2,302.4	-105.9	448.1	267.2	180.91	2.477	CC, ES, SF		
9,500.0	6,499.0	6,476.0	6,476.0	52.5	129.5	90.00	2,302.4	-105.9	449.9	268.3	181.64	2.477			
9,600.0	6,499.0	6,476.0	6,476.0	54.3	129.5	90.00	2,302.4	-105.9	469.6	286.2	183.45	2.560			
9,700.0	6,499.0	6,476.0	6,476.0	56.1	129.5	90.00	2,302.4	-105.9	508.6	323.3	185.26	2.745			
9,800.0	6,499.0	6,476.0	6,476.0	57.9	129.5	90.00	2,302.4	-105.9	562.8	375.7	187.09	3.008			
9,900.0	6,499.0	6,476.0	6,476.0	59.8	129.5	90.00	2,302.4	-105.9	628.4	439.5	188.92	3.326			
10,000.0	6,499.0	6,476.0	6,476.0	61.6	129.5	90.00	2,302.4	-105.9	702.1	511.4	190.75	3.681			
10,100.0	6,499.0	6,476.0	6,476.0	63.4	129.5	90.00	2,302.4	-105.9	781.7	589.1	192.59	4.059			
10,200.0	6,499.0	6,476.0	6,476.0	65.3	129.5	90.00	2,302.4	-105.9	865.6	671.1	194.44	4.452			
10,300.0	6,499.0	6,476.0	6,476.0	67.1	129.5	90.00	2,302.4	-105.9	952.5	756.2	196.29	4.853			

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Reference Site:	North Platte E-A-28HC Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (1-25-13)	Offset TVD Reference:	Offset Datum

Offset Design										North Platte E-A-28HC Pad Sec.28-T5N-R63W - Dow 13-28 (Exist.) - Wellbore #1 - Wellbore #1				Offset Site Error:		0.0 ft
Survey Program: 6600-UNKNOWN														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				
7,700.0	6,499.0	6,476.0	6,476.0	23.1	129.5	90.00	1,278.7	33.4	942.5	790.1	152.39	6.185	3.609 CC, ES 3.607 SF			
7,800.0	6,499.0	6,476.0	6,476.0	24.4	129.5	90.00	1,278.7	33.4	866.7	713.0	153.65	5.640				
7,900.0	6,499.0	6,476.0	6,476.0	25.8	129.5	90.00	1,278.7	33.4	796.2	641.2	154.99	5.137				
8,000.0	6,499.0	6,476.0	6,476.0	27.3	129.5	90.00	1,278.7	33.4	732.6	576.2	156.40	4.684				
8,100.0	6,499.0	6,476.0	6,476.0	28.8	129.5	90.00	1,278.7	33.4	677.9	520.0	157.87	4.294				
8,200.0	6,499.0	6,476.0	6,476.0	30.3	129.5	90.00	1,278.7	33.4	634.3	474.9	159.39	3.980				
8,300.0	6,499.0	6,476.0	6,476.0	31.9	129.5	90.00	1,278.7	33.4	604.3	443.3	160.96	3.754				
8,400.0	6,499.0	6,476.0	6,476.0	33.5	129.5	90.00	1,278.7	33.4	589.9	427.3	162.56	3.629				
8,435.9	6,499.0	6,476.0	6,476.0	34.1	129.5	90.00	1,278.7	33.4	588.8	425.7	163.15					
8,500.0	6,499.0	6,476.0	6,476.0	35.1	129.5	90.00	1,278.7	33.4	592.3	428.1	164.20					
8,600.0	6,499.0	6,476.0	6,476.0	36.8	129.5	90.00	1,278.7	33.4	611.2	445.4	165.86	3.685				
8,700.0	6,499.0	6,476.0	6,476.0	38.5	129.5	90.00	1,278.7	33.4	645.3	477.8	167.55	3.851				
8,800.0	6,499.0	6,476.0	6,476.0	40.2	129.5	90.00	1,278.7	33.4	692.3	523.0	169.26	4.090				
8,900.0	6,499.0	6,476.0	6,476.0	41.9	129.5	90.00	1,278.7	33.4	749.7	578.7	170.99	4.385				
9,000.0	6,499.0	6,476.0	6,476.0	43.6	129.5	90.00	1,278.7	33.4	815.4	642.7	172.73	4.721				
9,100.0	6,499.0	6,476.0	6,476.0	45.4	129.5	90.00	1,278.7	33.4	887.5	713.0	174.49	5.086				
9,200.0	6,499.0	6,476.0	6,476.0	47.2	129.5	90.00	1,278.7	33.4	964.6	788.4	176.26	5.473				

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Reference Site:	North Platte E-A-28HC Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (1-25-13)	Offset TVD Reference:	Offset Datum

Offset Design North Platte E-A-28HC Pad Sec.28-T5N-R63W - Morgante 44-29U (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 6600-UNKNOWN													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1,400.0	1,385.0	1,379.0	1,379.0	4.5	27.6	63.72		3.7	-1,086.8	996.9	965.1	31.76	31.386	
1,500.0	1,483.2	1,477.2	1,477.2	4.9	29.5	64.68		3.7	-1,086.8	988.6	954.4	34.14	28.955	
1,600.0	1,581.4	1,575.4	1,575.4	5.3	31.5	65.66		3.7	-1,086.8	980.6	944.0	36.53	26.846	
1,700.0	1,679.6	1,673.6	1,673.6	5.8	33.5	66.65		3.7	-1,086.8	972.8	933.9	38.91	24.999	
1,800.0	1,777.9	1,771.9	1,771.9	6.2	35.4	67.66		3.7	-1,086.8	965.4	924.1	41.31	23.371	
1,900.0	1,876.1	1,870.1	1,870.1	6.6	37.4	68.69		3.7	-1,086.8	958.3	914.6	43.70	21.927	
2,000.0	1,974.3	1,968.3	1,968.3	7.0	39.4	69.73		3.7	-1,086.8	951.5	905.4	46.11	20.638	
2,100.0	2,072.5	2,066.5	2,066.5	7.5	41.3	70.78		3.7	-1,086.8	945.1	896.5	48.51	19.482	
2,200.0	2,170.7	2,164.7	2,164.7	7.9	43.3	71.85		3.7	-1,086.8	938.9	888.0	50.92	18.440	
2,300.0	2,268.9	2,262.9	2,262.9	8.3	45.3	72.93		3.7	-1,086.8	933.1	879.8	53.33	17.498	
2,400.0	2,367.1	2,361.1	2,361.1	8.8	47.2	74.02		3.7	-1,086.8	927.7	872.0	55.74	16.644	
2,500.0	2,465.3	2,459.3	2,459.3	9.2	49.2	75.13		3.7	-1,086.8	922.6	864.4	58.15	15.865	
2,600.0	2,563.6	2,557.6	2,557.6	9.6	51.2	76.24		3.7	-1,086.8	917.9	857.3	60.57	15.154	
2,700.0	2,661.8	2,655.8	2,655.8	10.0	53.1	77.37		3.7	-1,086.8	913.5	850.5	62.98	14.504	
2,800.0	2,760.0	2,754.0	2,754.0	10.5	55.1	78.51		3.7	-1,086.8	909.5	844.1	65.40	13.907	
2,900.0	2,858.2	2,852.2	2,852.2	10.9	57.0	79.66		3.7	-1,086.8	905.9	838.1	67.82	13.358	
3,000.0	2,956.4	2,950.4	2,950.4	11.3	59.0	80.81		3.7	-1,086.8	902.6	832.4	70.23	12.852	
3,100.0	3,054.6	3,048.6	3,048.6	11.7	61.0	81.97		3.7	-1,086.8	899.8	827.1	72.64	12.386	
3,200.0	3,152.8	3,146.8	3,146.8	12.2	62.9	83.14		3.7	-1,086.8	897.3	822.2	75.06	11.954	
3,300.0	3,251.0	3,245.0	3,245.0	12.6	64.9	84.32		3.7	-1,086.8	895.2	817.7	77.47	11.555	
3,400.0	3,349.3	3,343.3	3,343.3	13.0	66.9	85.50		3.7	-1,086.8	893.5	813.6	79.88	11.186	
3,500.0	3,447.5	3,441.5	3,441.5	13.5	68.8	86.68		3.7	-1,086.8	892.2	809.9	82.28	10.843	
3,600.0	3,545.7	3,539.7	3,539.7	13.9	70.8	87.87		3.7	-1,086.8	891.3	806.6	84.68	10.525	
3,700.0	3,643.9	3,637.9	3,637.9	14.3	72.8	89.06		3.7	-1,086.8	890.7	803.7	87.08	10.229	
3,779.3	3,721.8	3,715.8	3,715.8	14.7	74.3	90.00		3.7	-1,086.8	890.6	801.6	88.98	10.010	
3,800.0	3,742.1	3,736.1	3,736.1	14.7	74.7	90.25		3.7	-1,086.8	890.6	801.2	89.47	9.954	
3,900.0	3,840.3	3,834.3	3,834.3	15.2	76.7	91.43		3.7	-1,086.8	890.9	799.1	91.86	9.699	
4,000.0	3,938.5	3,932.5	3,932.5	15.6	78.7	92.62		3.7	-1,086.8	891.6	797.3	94.24	9.461	
4,100.0	4,036.7	4,030.7	4,030.7	16.0	80.6	93.81		3.7	-1,086.8	892.7	796.0	96.61	9.239	
4,200.0	4,135.0	4,129.0	4,129.0	16.5	82.6	94.99		3.7	-1,086.8	894.1	795.1	98.98	9.033	
4,300.0	4,233.2	4,227.2	4,227.2	16.9	84.5	96.17		3.7	-1,086.8	896.0	794.6	101.35	8.841	
4,400.0	4,331.4	4,325.4	4,325.4	17.3	86.5	97.34		3.7	-1,086.8	898.2	794.5	103.70	8.662	
4,500.0	4,429.6	4,423.6	4,423.6	17.8	88.5	98.51		3.7	-1,086.8	900.9	794.8	106.05	8.495	
4,600.0	4,527.8	4,521.8	4,521.8	18.2	90.4	99.67		3.7	-1,086.8	903.9	795.5	108.39	8.339	
4,700.0	4,626.0	4,620.0	4,620.0	18.6	92.4	100.82		3.7	-1,086.8	907.3	796.6	110.73	8.194	
4,800.0	4,724.2	4,718.2	4,718.2	19.0	94.4	101.96		3.7	-1,086.8	911.1	798.1	113.05	8.059	
4,900.0	4,822.4	4,816.4	4,816.4	19.5	96.3	103.09		3.7	-1,086.8	915.3	799.9	115.37	7.933	
5,000.0	4,920.7	4,914.7	4,914.7	19.9	98.3	104.22		3.7	-1,086.8	919.8	802.1	117.68	7.816	
5,100.0	5,018.9	5,012.9	5,012.9	20.3	100.3	105.33		3.7	-1,086.8	924.7	804.7	119.99	7.706	
5,200.0	5,117.1	5,111.1	5,111.1	20.8	102.2	106.43		3.7	-1,086.8	929.9	807.6	122.28	7.605	
5,300.0	5,215.3	5,209.3	5,209.3	21.2	104.2	107.52		3.7	-1,086.8	935.5	810.9	124.57	7.510	
5,346.3	5,260.8	5,254.8	5,254.8	21.4	105.1	108.02		3.7	-1,086.8	938.2	812.6	125.62	7.468	
5,400.0	5,313.6	5,307.6	5,307.6	21.6	106.2	108.62		3.7	-1,086.8	941.3	814.4	126.84	7.421	
5,500.0	5,412.4	5,406.4	5,406.4	21.8	108.1	109.59		3.7	-1,086.8	946.3	817.3	129.05	7.333	
5,600.0	5,511.7	5,505.7	5,505.7	22.0	110.1	110.33		3.7	-1,086.8	950.4	819.1	131.23	7.242	
5,700.0	5,611.4	5,605.4	5,605.4	22.2	112.1	110.85		3.7	-1,086.8	953.3	819.9	133.40	7.146	
5,800.0	5,711.2	5,705.2	5,705.2	22.4	114.1	111.15		3.7	-1,086.8	955.0	819.5	135.54	7.046	
5,888.8	5,800.0	5,794.0	5,794.0	22.5	115.9	-33.60		3.7	-1,086.8	955.5	818.1	137.43	6.953	
5,900.0	5,811.2	5,805.2	5,805.2	22.5	116.1	-33.60		3.7	-1,086.8	955.5	817.9	137.67	6.941	
6,000.0	5,911.2	5,905.2	5,905.2	22.6	118.1	-33.60		3.7	-1,086.8	955.5	815.7	139.78	6.836	
6,066.9	5,978.1	5,972.1	5,972.1	22.7	119.4	-33.60		3.7	-1,086.8	955.5	814.3	141.19	6.768	

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

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Reference Site:	North Platte E-A-28HC Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (1-25-13)	Offset TVD Reference:	Offset Datum

Offset Design		North Platte E-A-28HC Pad Sec.28-T5N-R63W - Morgante 44-29U (Exist.) - Wellbore #1 - Wellbore #1										Offset Site Error:		0.0 ft			
Survey Program: 6600-UNKNOWN														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth 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					
6,100.0	6,011.2	6,005.2	6,005.2	22.7	120.1	-33.75	3.7	-1,086.8	954.6	813.0	141.66	6.739					
6,150.0	6,060.9	6,054.9	6,054.9	22.7	121.1	-34.22	3.7	-1,086.8	950.0	808.4	141.67	6.706					
6,200.0	6,109.8	6,103.8	6,103.8	22.7	122.1	-35.12	3.7	-1,086.8	941.5	800.6	140.87	6.684					
6,250.0	6,157.5	6,151.5	6,151.5	22.6	123.0	-36.46	3.7	-1,086.8	929.2	789.8	139.37	6.667					
6,300.0	6,203.5	6,197.5	6,197.5	22.4	124.0	-38.30	3.7	-1,086.8	913.3	775.9	137.41	6.646					
6,350.0	6,247.5	6,241.5	6,241.5	22.3	124.8	-40.67	3.7	-1,086.8	894.0	758.7	135.29	6.608					
6,400.0	6,289.0	6,283.0	6,283.0	22.1	125.7	-43.63	3.7	-1,086.8	871.7	738.3	133.43	6.533					
6,450.0	6,327.6	6,321.6	6,321.6	21.9	126.4	-47.23	3.7	-1,086.8	846.7	714.4	132.31	6.400					
6,500.0	6,363.0	6,357.0	6,357.0	21.6	127.1	-51.50	3.7	-1,086.8	819.5	687.2	132.34	6.192					
6,550.0	6,394.9	6,388.9	6,388.9	21.4	127.8	-56.39	3.7	-1,086.8	790.5	656.8	133.77	5.910					
6,600.0	6,422.9	6,416.9	6,416.9	21.1	128.3	-61.81	3.7	-1,086.8	760.3	623.9	136.44	5.573					
6,650.0	6,446.8	6,440.8	6,440.8	20.9	128.8	-67.56	3.7	-1,086.8	729.5	589.7	139.79	5.218					
6,700.0	6,466.5	6,460.5	6,460.5	20.6	129.2	-73.34	3.7	-1,086.8	698.7	555.6	143.07	4.883					
6,750.0	6,481.6	6,475.6	6,475.6	20.3	129.5	-78.83	3.7	-1,086.8	668.6	523.0	145.61	4.592					
6,800.0	6,492.1	6,486.1	6,486.1	20.1	129.7	-83.71	3.7	-1,086.8	639.9	492.8	147.11	4.350					
6,850.0	6,497.8	6,491.8	6,491.8	19.9	129.8	-87.75	3.7	-1,086.8	613.4	465.8	147.67	4.154					
6,885.1	6,499.0	6,493.0	6,493.0	19.7	129.9	-90.00	3.7	-1,086.8	596.5	448.9	147.67	4.040					
6,900.0	6,499.0	6,493.0	6,493.0	19.6	129.9	-90.00	3.7	-1,086.8	589.8	442.2	147.65	3.995					
6,985.2	6,499.0	6,493.0	6,493.0	19.3	129.9	-90.00	3.7	-1,086.8	557.6	409.9	147.64	3.777					
6,986.8	6,499.0	6,493.0	6,493.0	19.3	129.9	-90.00	3.7	-1,086.8	557.1	409.4	147.64	3.773					
7,000.0	6,499.0	6,493.0	6,493.0	19.2	129.9	-90.00	3.7	-1,086.8	553.1	405.5	147.64	3.747					
7,100.0	6,499.0	6,493.0	6,493.0	19.0	129.9	-90.00	3.7	-1,086.8	533.0	385.2	147.84	3.605					
7,159.3	6,499.0	6,493.0	6,493.0	18.8	129.9	-90.00	3.7	-1,086.8	529.7	381.6	148.09	3.577 CC, ES, SF					
7,200.0	6,499.0	6,493.0	6,493.0	18.8	129.9	-90.00	3.7	-1,086.8	531.3	383.0	148.25	3.583					
7,300.0	6,499.0	6,493.0	6,493.0	19.0	129.9	-90.00	3.7	-1,086.8	548.0	399.2	148.85	3.682					
7,400.0	6,499.0	6,493.0	6,493.0	19.8	129.9	-90.00	3.7	-1,086.8	581.8	432.2	149.61	3.889					
7,500.0	6,499.0	6,493.0	6,493.0	20.8	129.9	-90.00	3.7	-1,086.8	629.8	479.2	150.53	4.184					
7,600.0	6,499.0	6,493.0	6,493.0	21.9	129.9	-90.00	3.7	-1,086.8	689.0	537.4	151.57	4.546					
7,700.0	6,499.0	6,493.0	6,493.0	23.1	129.9	-90.00	3.7	-1,086.8	756.9	604.2	152.73	4.956					
7,800.0	6,499.0	6,493.0	6,493.0	24.4	129.9	-90.00	3.7	-1,086.8	831.3	677.3	153.99	5.398					
7,900.0	6,499.0	6,493.0	6,493.0	25.8	129.9	-90.00	3.7	-1,086.8	910.6	755.2	155.33	5.862					
8,000.0	6,499.0	6,493.0	6,493.0	27.3	129.9	-90.00	3.7	-1,086.8	993.6	836.9	156.74	6.339					

Peterson 14-28 Pad Sec.28-T5N-R63W - North Platte J-F-28HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 472-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	119.26	-10.9	19.5	22.4					
100.0	100.0	99.0	99.0	0.1	0.1	119.22	-10.9	19.5	22.4	22.1	0.22	99.930	CC	
200.0	200.0	199.0	199.0	0.3	0.2	119.07	-10.9	19.5	22.4	21.8	0.56	39.876		
300.0	300.0	299.0	299.0	0.5	0.3	-100.71	-10.8	19.6	22.6	21.8	0.88	25.811	ES	
400.0	399.8	398.8	398.8	0.8	0.4	-113.24	-10.7	19.7	24.2	23.0	1.20	20.150		
500.0	499.5	498.3	498.3	1.0	0.6	-129.32	-10.6	19.8	28.9	27.3	1.59	18.232	SF	
600.0	598.7	597.5	597.5	1.3	0.8	-140.25	-12.6	20.9	38.3	36.3	2.05	18.687		
700.0	697.5	696.6	696.5	1.6	1.0	-146.87	-16.3	22.3	51.1	48.6	2.52	20.306		
742.5	739.2	738.6	738.4	1.8	1.1	-148.41	-18.7	23.2	57.6	54.8	2.73	21.127		
800.0	795.7	795.4	795.1	2.0	1.2	-149.37	-22.9	24.9	66.7	63.7	3.01	22.122		
900.0	893.9	894.1	893.1	2.4	1.5	-148.70	-32.6	28.8	82.5	78.9	3.56	23.150		
1,000.0	992.2	993.0	991.2	2.8	1.8	-146.57	-44.8	34.0	98.5	94.3	4.17	23.618		
1,100.0	1,090.4	1,091.7	1,088.6	3.2	2.1	-143.59	-59.8	39.7	114.1	109.3	4.84	23.552		
1,200.0	1,188.6	1,188.9	1,183.9	3.7	2.5	-140.17	-76.9	46.7	130.7	125.1	5.59	23.398		
1,300.0	1,286.8	1,285.2	1,277.9	4.1	2.9	-136.52	-96.1	55.4	148.9	142.5	6.39	23.293		
1,400.0	1,385.0	1,381.6	1,371.5	4.5	3.3	-132.97	-117.0	65.4	168.7	161.4	7.24	23.296		
1,500.0	1,483.2	1,478.4	1,465.4	4.9	3.8	-130.00	-138.4	76.0	189.4	181.3	8.08	23.448		
1,600.0	1,581.4	1,576.6	1,560.5	5.3	4.2	-127.56	-160.2	86.7	210.6	201.7	8.89	23.690		
1,700.0	1,679.6	1,672.6	1,653.3	5.8	4.7	-125.50	-181.9	97.2	232.0	222.3	9.71	23.890		
1,800.0	1,777.9	1,769.3	1,747.1	6.2	5.1	-124.05	-202.7	108.4	254.2	243.7	10.50	24.203		
1,900.0	1,876.1	1,864.4	1,839.9	6.6	5.5	-123.43	-220.4	119.8	277.0	265.7	11.24	24.648		
2,000.0	1,974.3	1,963.2	1,936.3	7.0	5.9	-122.89	-238.8	131.9	300.0	288.0	12.00	25.004		
2,100.0	2,072.5	2,062.6	2,033.0	7.5	6.4	-122.24	-258.3	143.4	322.4	309.6	12.78	25.236		
2,200.0	2,170.7	2,162.1	2,130.0	7.9	6.8	-121.66	-277.9	154.3	344.2	330.7	13.54	25.429		
2,300.0	2,268.9	2,261.4	2,226.9	8.3	7.2	-121.28	-296.6	164.7	365.6	351.4	14.28	25.612		
2,400.0	2,367.1	2,362.4	2,325.6	8.8	7.6	-120.98	-315.2	174.6	386.3	371.3	15.03	25.704		
2,500.0	2,465.3	2,461.9	2,423.0	9.2	8.0	-120.64	-334.2	183.7	406.4	390.6	15.81	25.714		
2,600.0	2,563.6	2,558.2	2,516.8	9.6	8.4	-120.14	-354.0	192.3	426.4	409.8	16.61	25.678		
2,700.0	2,661.8	2,651.9	2,607.6	10.0	8.9	-119.38	-375.6	201.3	447.3	429.9	17.43	25.659		
2,800.0	2,760.0	2,749.6	2,701.7	10.5	9.4	-118.47	-399.6	210.9	468.8	450.5	18.29	25.637		
2,900.0	2,858.2	2,845.5	2,794.2	10.9	9.9	-117.66	-423.2	220.2	490.1	471.0	19.11	25.644		
3,000.0	2,956.4	2,941.7	2,887.0	11.3	10.4	-116.94	-446.6	230.3	512.3	492.4	19.93	25.705		
3,100.0	3,054.6	3,043.2	2,985.3	11.7	10.8	-116.43	-469.7	240.6	534.0	513.3	20.74	25.750		
3,200.0	3,152.8	3,139.1	3,078.8	12.2	11.3	-116.32	-488.3	250.4	555.3	533.8	21.50	25.834		
3,300.0	3,251.0	3,239.6	3,176.9	12.6	11.7	-116.25	-507.6	261.1	577.0	554.8	22.28	25.903		
3,400.0	3,349.3	3,343.1	3,277.9	13.0	12.1	-116.12	-528.0	271.0	597.7	574.6	23.07	25.910		
3,500.0	3,447.5	3,444.2	3,376.4	13.5	12.6	-115.92	-548.5	279.8	617.7	593.8	23.87	25.880		
3,600.0	3,545.7	3,534.0	3,463.7	13.9	13.0	-115.59	-568.6	287.6	638.0	613.3	24.66	25.874		
3,700.0	3,643.9	3,624.6	3,551.1	14.3	13.5	-115.17	-590.2	296.4	659.6	634.1	25.47	25.896		
3,800.0	3,742.1	3,722.5	3,645.5	14.7	14.0	-114.67	-614.3	306.4	681.8	655.5	26.32	25.901		
3,900.0	3,840.3	3,824.7	3,744.0	15.2	14.5	-114.16	-639.8	316.3	703.6	676.4	27.18	25.884		
4,000.0	3,938.5	3,915.1	3,831.2	15.6	15.0	-113.73	-662.3	325.1	725.5	697.5	27.98	25.925		
4,100.0	4,036.7	4,011.9	3,924.5	16.0	15.5	-113.38	-685.6	335.3	748.0	719.2	28.80	25.974		
4,200.0	4,135.0	4,119.8	4,029.1	16.5	16.0	-113.15	-709.6	346.2	769.8	740.2	29.63	25.981		
4,300.0	4,233.2	4,213.2	4,119.8	16.9	16.4	-113.00	-729.9	355.5	791.3	760.9	30.41	26.026		
4,400.0	4,331.4	4,311.1	4,215.0	17.3	16.9	-112.90	-750.6	365.6	813.1	781.9	31.19	26.068		
4,500.0	4,429.6	4,416.0	4,317.5	17.8	17.3	-113.01	-769.8	376.8	834.7	802.7	31.97	26.107		
4,600.0	4,527.8	4,536.4	4,435.6	18.2	17.8	-113.15	-791.0	387.2	854.1	821.3	32.80	26.040		
4,700.0	4,626.0	4,632.6	4,529.9	18.6	18.2	-113.20	-808.6	394.0	872.2	838.6	33.55	25.992		
4,800.0	4,724.2	4,717.8	4,613.4	19.0	18.5	-113.25	-824.2	401.1	891.4	857.1	34.28	26.005		
4,900.0	4,822.4	4,814.9	4,708.3	19.5	18.9	-113.30	-842.2	410.2	911.7	876.7	35.04	26.021		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Reference Site:	North Platte E-A-28HC Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (1-25-13)	Offset TVD Reference:	Offset Datum

Offset Design												Peterson 14-28 Pad Sec.28-T5N-R63W - North Platte J-F-28HZ - Wellbore #1 - Wellbore #1		Offset Site Error:		0.0 ft	
Survey Program: 472-MWD														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
5,000.0	4,920.7	4,930.3	4,821.5	19.9	19.4	-113.44	-862.2	420.0	931.0	895.1	35.84	25.974					
5,100.0	5,018.9	5,048.7	4,938.4	20.3	19.8	-113.78	-879.0	428.2	948.1	911.5	36.62	25.893					
5,200.0	5,117.1	5,160.5	5,049.3	20.8	20.1	-114.25	-892.0	434.4	963.5	926.2	37.34	25.807					
5,300.0	5,215.3	5,264.3	5,152.5	21.2	20.4	-114.78	-901.8	439.7	978.2	940.1	38.01	25.737					
5,346.3	5,260.8	5,312.7	5,200.7	21.4	20.5	-115.08	-905.5	442.2	984.8	946.4	38.31	25.706					
5,400.0	5,313.6	5,376.9	5,264.7	21.6	20.6	-115.64	-909.2	445.1	991.9	953.2	38.65	25.666					
7,500.0	6,499.0	7,442.0	6,322.3	20.8	17.9	79.88	358.9	427.6	999.9	962.4	37.44	26.704					
7,539.4	6,499.0	7,464.7	6,322.4	21.2	18.1	79.88	381.7	427.4	999.6	961.5	38.07	26.254					
7,600.0	6,499.0	7,519.6	6,321.6	21.9	18.7	79.84	436.5	427.6	999.8	960.6	39.26	25.466					

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Reference Site:	North Platte E-A-28HC Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (1-25-13)	Offset TVD Reference:	Offset Datum

Offset Design Peterson 14-28 Pad Sec.28-T5N-R63W - Peterson 14-28 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 6640-UNKNOWN													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	2.0	2.0	0.0	0.0	0.00	32.8	0.0	32.8	32.7	0.04	815.519		
100.0	100.0	102.0	102.0	0.1	2.0	0.00	32.8	0.0	32.8	30.6	2.15	15.230		
200.0	200.0	202.0	202.0	0.3	4.0	0.00	32.8	0.0	32.8	28.4	4.38	7.489 CC		
300.0	300.0	302.0	302.0	0.5	6.0	146.51	32.8	0.0	34.2	27.6	6.58	5.202 ES		
400.0	399.8	401.8	401.8	0.8	8.0	150.74	32.8	0.0	38.7	29.9	8.77	4.413		
500.0	499.5	501.5	501.5	1.0	10.0	155.93	32.8	0.0	46.5	35.5	10.95	4.246		
600.0	598.7	600.7	600.7	1.3	12.0	160.78	32.8	0.0	57.8	44.7	13.11	4.414		
700.0	697.5	699.5	699.5	1.6	14.0	164.75	32.8	0.0	72.8	57.6	15.22	4.783		
742.5	739.2	741.2	741.2	1.8	14.8	166.16	32.8	0.0	80.3	64.2	16.11	4.982		
800.0	795.7	797.7	797.7	2.0	16.0	167.79	32.8	0.0	90.8	73.5	17.36	5.232		
900.0	893.9	895.9	895.9	2.4	17.9	169.88	32.8	0.0	109.3	89.8	19.53	5.596		
1,000.0	992.2	994.2	994.2	2.8	19.9	171.36	32.8	0.0	127.9	106.2	21.71	5.891		
1,100.0	1,090.4	1,092.4	1,092.4	3.2	21.8	172.46	32.8	0.0	146.5	122.6	23.89	6.133		
1,200.0	1,188.6	1,190.6	1,190.6	3.7	23.8	173.32	32.8	0.0	165.2	139.1	26.07	6.337		
1,300.0	1,286.8	1,288.8	1,288.8	4.1	25.8	174.00	32.8	0.0	183.9	155.7	28.26	6.509		
1,400.0	1,385.0	1,387.0	1,387.0	4.5	27.7	174.56	32.8	0.0	202.7	172.2	30.44	6.657		
1,500.0	1,483.2	1,485.2	1,485.2	4.9	29.7	175.02	32.8	0.0	221.4	188.8	32.63	6.786		
1,600.0	1,581.4	1,583.4	1,583.4	5.3	31.7	175.41	32.8	0.0	240.2	205.4	34.81	6.899		
1,700.0	1,679.6	1,681.6	1,681.6	5.8	33.6	175.74	32.8	0.0	258.9	221.9	37.00	6.998		
1,800.0	1,777.9	1,779.9	1,779.9	6.2	35.6	176.03	32.8	0.0	277.7	238.5	39.19	7.087		
1,900.0	1,876.1	1,878.1	1,878.1	6.6	37.6	176.28	32.8	0.0	296.5	255.1	41.38	7.166		
2,000.0	1,974.3	1,976.3	1,976.3	7.0	39.5	176.50	32.8	0.0	315.3	271.7	43.56	7.237		
2,100.0	2,072.5	2,074.5	2,074.5	7.5	41.5	176.70	32.8	0.0	334.1	288.3	45.75	7.302		
2,200.0	2,170.7	2,172.7	2,172.7	7.9	43.5	176.88	32.8	0.0	352.9	304.9	47.94	7.360		
2,300.0	2,268.9	2,270.9	2,270.9	8.3	45.4	177.04	32.8	0.0	371.7	321.5	50.13	7.414		
2,400.0	2,367.1	2,369.1	2,369.1	8.8	47.4	177.18	32.8	0.0	390.5	338.1	52.32	7.463		
2,500.0	2,465.3	2,467.3	2,467.3	9.2	49.3	177.31	32.8	0.0	409.3	354.8	54.51	7.508		
2,600.0	2,563.6	2,565.6	2,565.6	9.6	51.3	177.43	32.8	0.0	428.1	371.4	56.70	7.550		
2,700.0	2,661.8	2,663.8	2,663.8	10.0	53.3	177.53	32.8	0.0	446.9	388.0	58.89	7.589		
2,800.0	2,760.0	2,762.0	2,762.0	10.5	55.2	177.63	32.8	0.0	465.7	404.6	61.08	7.625		
2,900.0	2,858.2	2,860.2	2,860.2	10.9	57.2	177.73	32.8	0.0	484.5	421.2	63.27	7.658		
3,000.0	2,956.4	2,958.4	2,958.4	11.3	59.2	177.81	32.8	0.0	503.3	437.8	65.45	7.689		
3,100.0	3,054.6	3,056.6	3,056.6	11.7	61.1	177.89	32.8	0.0	522.1	454.5	67.64	7.718		
3,200.0	3,152.8	3,154.8	3,154.8	12.2	63.1	177.96	32.8	0.0	540.9	471.1	69.83	7.746		
3,300.0	3,251.0	3,253.0	3,253.0	12.6	65.1	178.03	32.8	0.0	559.7	487.7	72.02	7.771		
3,400.0	3,349.3	3,351.3	3,351.3	13.0	67.0	178.10	32.8	0.0	578.5	504.3	74.21	7.796		
3,500.0	3,447.5	3,449.5	3,449.5	13.5	69.0	178.16	32.8	0.0	597.4	521.0	76.40	7.818		
3,600.0	3,545.7	3,547.7	3,547.7	13.9	71.0	178.21	32.8	0.0	616.2	537.6	78.59	7.840		
3,700.0	3,643.9	3,645.9	3,645.9	14.3	72.9	178.27	32.8	0.0	635.0	554.2	80.78	7.860		
3,800.0	3,742.1	3,744.1	3,744.1	14.7	74.9	178.32	32.8	0.0	653.8	570.8	82.97	7.880		
3,900.0	3,840.3	3,842.3	3,842.3	15.2	76.8	178.36	32.8	0.0	672.6	587.5	85.16	7.898		
4,000.0	3,938.5	3,940.5	3,940.5	15.6	78.8	178.41	32.8	0.0	691.4	604.1	87.35	7.915		
4,100.0	4,036.7	4,038.7	4,038.7	16.0	80.8	178.45	32.8	0.0	710.2	620.7	89.54	7.932		
4,200.0	4,135.0	4,137.0	4,137.0	16.5	82.7	178.49	32.8	0.0	729.1	637.3	91.74	7.947		
4,300.0	4,233.2	4,235.2	4,235.2	16.9	84.7	178.53	32.8	0.0	747.9	654.0	93.93	7.963		
4,400.0	4,331.4	4,333.4	4,333.4	17.3	86.7	178.56	32.8	0.0	766.7	670.6	96.12	7.977		
4,500.0	4,429.6	4,431.6	4,431.6	17.8	88.6	178.60	32.8	0.0	785.5	687.2	98.31	7.991		
4,600.0	4,527.8	4,529.8	4,529.8	18.2	90.6	178.63	32.8	0.0	804.3	703.8	100.50	8.004		
4,700.0	4,626.0	4,628.0	4,628.0	18.6	92.6	178.66	32.8	0.0	823.2	720.5	102.69	8.016		
4,800.0	4,724.2	4,726.2	4,726.2	19.0	94.5	178.69	32.8	0.0	842.0	737.1	104.88	8.028		
4,900.0	4,822.4	4,824.4	4,824.4	19.5	96.5	178.72	32.8	0.0	860.8	753.7	107.07	8.040		

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

Peterson 14-28 Pad Sec.28-T5N-R63W - Peterson 14-28 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 6640-UNKNOWN												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
5,000.0	4,920.7	4,922.7	4,922.7	19.9	98.5	178.75	32.8	0.0	879.6	770.3	109.26	8.051	
5,100.0	5,018.9	5,020.9	5,020.9	20.3	100.4	178.77	32.8	0.0	898.4	787.0	111.45	8.061	
5,200.0	5,117.1	5,119.1	5,119.1	20.8	102.4	178.80	32.8	0.0	917.2	803.6	113.64	8.072	
5,300.0	5,215.3	5,217.3	5,217.3	21.2	104.3	178.82	32.8	0.0	936.1	820.2	115.83	8.081	
5,346.3	5,260.8	5,262.8	5,262.8	21.4	105.3	178.83	32.8	0.0	944.8	827.9	116.84	8.086	
5,400.0	5,313.6	5,315.6	5,315.6	21.6	106.3	178.85	32.8	0.0	954.4	836.0	118.36	8.063	
5,500.0	5,412.4	5,414.4	5,414.4	21.8	108.3	178.87	32.8	0.0	969.6	848.6	121.08	8.008	
5,600.0	5,511.7	5,513.7	5,513.7	22.0	110.3	178.89	32.8	0.0	981.4	857.8	123.67	7.936	
5,700.0	5,611.4	5,613.4	5,613.4	22.2	112.3	178.90	32.8	0.0	989.8	863.6	126.12	7.848	
5,800.0	5,711.2	5,713.2	5,713.2	22.4	114.3	178.91	32.8	0.0	994.6	866.2	128.42	7.745	
5,888.8	5,800.0	5,802.0	5,802.0	22.5	116.0	34.07	32.8	0.0	996.0	865.6	130.35	7.641	
5,900.0	5,811.2	5,813.2	5,813.2	22.5	116.3	34.07	32.8	0.0	996.0	865.4	130.59	7.627	
6,000.0	5,911.2	5,913.2	5,913.2	22.6	118.3	34.07	32.8	0.0	996.0	863.2	132.75	7.503	
6,066.9	5,978.1	5,980.1	5,980.1	22.7	119.6	34.07	32.8	0.0	996.0	861.8	134.20	7.422	
6,100.0	6,011.2	6,013.2	6,013.2	22.7	120.3	34.10	32.8	0.0	995.1	860.5	134.61	7.392	
6,150.0	6,060.9	6,062.9	6,062.9	22.7	121.3	34.57	32.8	0.0	990.5	856.0	134.54	7.362	
6,200.0	6,109.8	6,111.8	6,111.8	22.7	122.2	35.45	32.8	0.0	982.0	848.3	133.68	7.346	
6,250.0	6,157.5	6,159.5	6,159.5	22.6	123.2	36.78	32.8	0.0	969.7	837.6	132.18	7.336	
6,300.0	6,203.5	6,205.5	6,205.5	22.4	124.1	38.59	32.8	0.0	953.9	823.6	130.28	7.322	
6,350.0	6,247.5	6,249.5	6,249.5	22.3	125.0	40.93	32.8	0.0	934.7	806.4	128.33	7.284	
6,400.0	6,289.0	6,291.0	6,291.0	22.1	125.8	43.85	32.8	0.0	912.5	785.7	126.79	7.197	
6,450.0	6,327.6	6,329.6	6,329.6	21.9	126.6	47.40	32.8	0.0	887.6	761.4	126.15	7.036	
6,500.0	6,363.0	6,365.0	6,365.0	21.6	127.3	51.59	32.8	0.0	860.4	733.5	126.87	6.782	
6,550.0	6,394.9	6,396.9	6,396.9	21.4	127.9	56.40	32.8	0.0	831.4	702.3	129.13	6.439	
6,600.0	6,422.9	6,424.9	6,424.9	21.1	128.5	61.73	32.8	0.0	801.2	668.4	132.73	6.036	
6,650.0	6,446.8	6,448.8	6,448.8	20.9	129.0	67.39	32.8	0.0	770.2	633.2	137.05	5.620	
6,700.0	6,466.5	6,468.5	6,468.5	20.6	129.4	73.12	32.8	0.0	739.3	598.0	141.24	5.234	
6,750.0	6,481.6	6,483.6	6,483.6	20.3	129.7	78.59	32.8	0.0	708.8	564.3	144.57	4.903	
6,800.0	6,492.1	6,494.1	6,494.1	20.1	129.9	83.52	32.8	0.0	679.7	533.0	146.69	4.634	
6,850.0	6,497.8	6,499.8	6,499.8	19.9	130.0	87.65	32.8	0.0	652.5	504.9	147.66	4.419	
6,885.1	6,499.0	6,501.0	6,501.0	19.7	130.0	90.00	32.8	0.0	635.0	487.2	147.83	4.296	
6,900.0	6,499.0	6,501.0	6,501.0	19.6	130.0	90.00	32.8	0.0	628.0	480.2	147.81	4.248	
6,985.2	6,499.0	6,501.0	6,501.0	19.3	130.0	90.00	32.8	0.0	593.5	445.7	147.80	4.015	
6,986.8	6,499.0	6,501.0	6,501.0	19.3	130.0	90.00	32.8	0.0	592.9	445.1	147.80	4.012	
7,000.0	6,499.0	6,501.0	6,501.0	19.2	130.0	90.00	32.8	0.0	588.5	440.8	147.80	3.982	
7,100.0	6,499.0	6,501.0	6,501.0	19.0	130.0	90.00	32.8	0.0	564.3	416.3	148.00	3.813	
7,189.9	6,499.0	6,501.0	6,501.0	18.8	130.0	90.00	32.8	0.0	557.1	408.7	148.37	3.754	
7,200.0	6,499.0	6,501.0	6,501.0	18.8	130.0	90.00	32.8	0.0	557.1	408.7	148.41	3.754 SF	
7,300.0	6,499.0	6,501.0	6,501.0	19.0	130.0	90.00	32.8	0.0	567.8	418.8	149.01	3.811	
7,400.0	6,499.0	6,501.0	6,501.0	19.8	130.0	90.00	32.8	0.0	595.3	445.6	149.77	3.975	
7,500.0	6,499.0	6,501.0	6,501.0	20.8	130.0	90.00	32.8	0.0	637.5	486.8	150.69	4.231	
7,600.0	6,499.0	6,501.0	6,501.0	21.9	130.0	90.00	32.8	0.0	691.7	540.0	151.73	4.559	
7,700.0	6,499.0	6,501.0	6,501.0	23.1	130.0	90.00	32.8	0.0	755.3	602.4	152.89	4.940	
7,800.0	6,499.0	6,501.0	6,501.0	24.4	130.0	90.00	32.8	0.0	826.1	672.0	154.15	5.359	
7,900.0	6,499.0	6,501.0	6,501.0	25.8	130.0	90.00	32.8	0.0	902.5	747.0	155.49	5.804	
8,000.0	6,499.0	6,501.0	6,501.0	27.3	130.0	90.00	32.8	0.0	983.1	826.2	156.90	6.266	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Reference Site:	North Platte E-A-28HC Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (1-25-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4564.0ft (RKB - 13')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: North Platte E-A-28HC
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.68°



Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte E-A-28HC
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4564.0ft (RKB - 13')
Reference Site:	North Platte E-A-28HC Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4564.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte E-A-28HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (1-25-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4564.0ft (RKB - 13')

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: North Platte E-A-28HC

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.68°

