

BONANZA CREEK ENERGY OPERATING

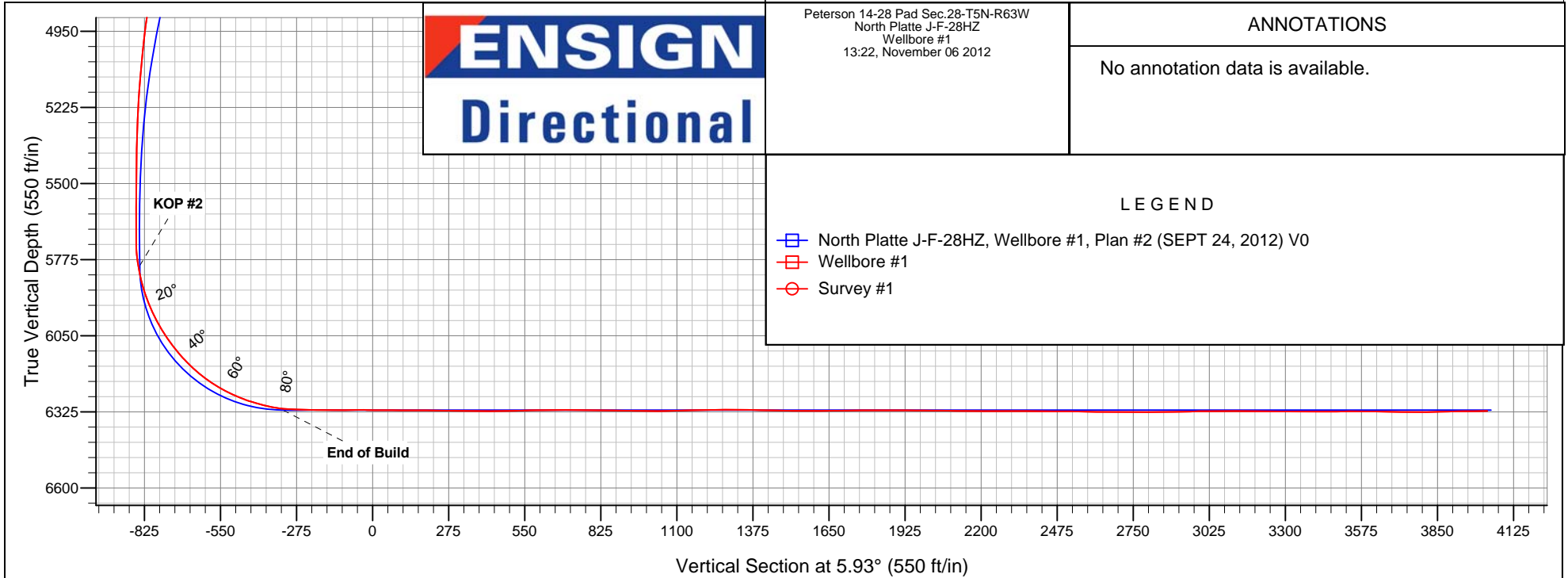
Well Name: North Platte J-F-28HZ

Surface Location: Peterson 14-28 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	1377707.98	3293035.07	40.365440	-104.448360	
		RKB 12'	WELL @ 4563.0ft (RKB 12')			

FINAL SURVEY

Projected Bottom Hole Location
11080'MD 6321'TVD 4007'N & 436'E of SHL
90.90 degree Incl @ 1.00 degree AZM





Directional

BONANZA CREEK ENERGY OPERATING

SEC.28-T5N-R63W

Peterson 14-28 Pad Sec.28-T5N-R63W

North Platte J-F-28HZ

Wellbore #1

Survey: Survey #1

Standard Survey Report

06 November, 2012

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
472.0	0.10	32.40	472.0	0.3	0.2	0.4	0.02	0.02	0.00
566.0	1.70	151.60	566.0	-0.8	0.9	-0.7	1.86	1.70	126.81
661.0	2.30	160.60	660.9	-3.8	2.2	-3.6	0.71	0.63	9.47
755.0	4.30	158.30	754.8	-8.9	4.2	-8.4	2.13	2.13	-2.45
849.0	6.20	158.50	848.4	-16.9	7.3	-16.1	2.02	2.02	0.21
944.0	7.70	155.80	942.7	-27.5	11.8	-26.1	1.62	1.58	-2.84
1,038.0	9.30	160.20	1,035.6	-40.4	17.0	-38.4	1.84	1.70	4.68
1,131.0	10.80	157.80	1,127.2	-55.5	22.8	-52.9	1.67	1.61	-2.58
1,223.0	12.40	156.00	1,217.3	-72.5	30.1	-69.0	1.78	1.74	-1.96
1,315.0	13.90	154.40	1,306.9	-91.5	38.9	-87.0	1.68	1.63	-1.74
1,408.0	14.30	153.90	1,397.1	-111.9	48.8	-106.3	0.45	0.43	-0.54
1,502.0	14.30	153.20	1,488.2	-132.7	59.1	-125.9	0.18	0.00	-0.74

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte J-F-28HZ
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4563.0ft (RKB 12')
Site:	Peterson 14-28 Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4563.0ft (RKB 12')
Well:	North Platte J-F-28HZ	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

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)	
1,595.0	14.40	154.80	1,578.3	-153.4	69.2	-145.4	0.44	0.11	1.72	
1,687.0	14.90	153.50	1,667.3	-174.3	79.3	-165.2	0.65	0.54	-1.41	
1,779.0	12.80	148.30	1,756.6	-193.6	90.0	-183.3	2.65	-2.28	-5.65	
1,872.0	12.80	145.50	1,847.3	-210.8	101.2	-199.3	0.67	0.00	-3.01	
1,965.0	13.00	148.10	1,938.0	-228.2	112.6	-215.4	0.66	0.22	2.80	
2,057.0	13.30	150.70	2,027.6	-246.2	123.2	-232.2	0.72	0.33	2.83	
2,150.0	12.80	151.10	2,118.2	-264.6	133.5	-249.4	0.55	-0.54	0.43	
2,241.0	12.30	150.60	2,207.0	-281.8	143.1	-265.5	0.56	-0.55	-0.55	
2,333.0	12.00	152.50	2,296.9	-298.9	152.3	-281.5	0.54	-0.33	2.07	
2,425.0	12.20	154.60	2,386.9	-316.1	160.9	-297.8	0.53	0.22	2.28	
2,518.0	12.90	156.90	2,477.7	-334.6	169.2	-315.3	0.92	0.75	2.47	
2,610.0	14.60	157.40	2,567.0	-354.7	177.7	-334.4	1.85	1.85	0.54	
2,703.0	15.60	158.10	2,656.8	-377.1	186.8	-355.8	1.09	1.08	0.75	
2,797.0	15.20	159.00	2,747.4	-400.4	196.0	-378.0	0.50	-0.43	0.96	
2,891.0	15.50	156.40	2,838.1	-423.4	205.4	-399.9	0.80	0.32	-2.77	
2,984.0	14.80	156.70	2,927.8	-445.7	215.1	-421.1	0.76	-0.75	0.32	
3,078.0	12.50	152.30	3,019.2	-465.7	224.6	-440.0	2.68	-2.45	-4.68	
3,172.0	12.70	150.00	3,110.9	-483.7	234.5	-456.8	0.57	0.21	-2.45	
3,266.0	12.70	153.70	3,202.6	-501.9	244.2	-474.0	0.87	0.00	3.94	
3,360.0	12.40	155.30	3,294.4	-520.3	253.0	-491.4	0.49	-0.32	1.70	
3,454.0	13.40	159.20	3,386.0	-539.7	261.1	-509.8	1.41	1.06	4.15	
3,548.0	14.70	158.10	3,477.2	-560.9	269.4	-530.1	1.41	1.38	-1.17	
3,640.0	15.40	157.10	3,566.0	-583.0	278.5	-551.1	0.81	0.76	-1.09	
3,734.0	15.60	158.30	3,656.6	-606.2	288.0	-573.2	0.40	0.21	1.28	
3,826.0	15.40	159.50	3,745.3	-629.2	296.9	-595.1	0.41	-0.22	1.30	
3,920.0	15.70	157.60	3,835.8	-652.6	306.1	-617.5	0.63	0.32	-2.02	
4,013.0	14.70	154.90	3,925.6	-674.9	315.9	-638.7	1.32	-1.08	-2.90	
4,106.0	13.70	156.20	4,015.7	-695.7	325.4	-658.4	1.13	-1.08	1.40	
4,199.0	13.90	154.90	4,106.0	-715.9	334.5	-677.5	0.40	0.22	-1.40	
4,292.0	13.50	153.70	4,196.4	-735.7	344.1	-696.2	0.53	-0.43	-1.29	
4,386.0	11.80	147.50	4,288.1	-753.7	354.1	-713.1	2.31	-1.81	-6.60	
4,480.0	11.20	154.10	4,380.2	-770.0	363.3	-728.3	1.54	-0.64	7.02	
4,572.0	11.30	160.20	4,470.5	-786.5	370.2	-744.1	1.30	0.11	6.63	
4,666.0	11.50	156.20	4,562.6	-803.8	377.1	-760.5	0.87	0.21	-4.26	
4,760.0	12.20	152.50	4,654.6	-821.2	385.5	-776.9	1.10	0.74	-3.94	
4,854.0	11.50	154.10	4,746.6	-838.4	394.2	-793.2	0.82	-0.74	1.70	
4,947.0	9.80	153.70	4,838.0	-853.8	401.7	-807.7	1.83	-1.83	-0.43	
5,041.0	8.30	154.40	4,930.8	-867.1	408.2	-820.3	1.60	-1.60	0.74	
5,135.0	6.90	154.10	5,024.0	-878.3	413.6	-830.9	1.49	-1.49	-0.32	
5,229.0	6.10	151.60	5,117.4	-887.8	418.4	-839.8	0.90	-0.85	-2.66	
5,323.0	4.70	142.80	5,211.0	-895.3	423.2	-846.7	1.73	-1.49	-9.36	
5,417.0	2.80	133.30	5,304.8	-899.9	427.2	-850.9	2.12	-2.02	-10.11	
5,511.0	1.40	114.20	5,398.7	-901.9	429.9	-852.7	1.65	-1.49	-20.32	
5,605.0	1.40	121.40	5,492.7	-903.0	431.9	-853.5	0.19	0.00	7.66	
5,699.0	1.10	125.90	5,586.7	-904.1	433.6	-854.5	0.34	-0.32	4.79	
5,761.0	0.80	140.40	5,648.7	-904.8	434.4	-855.1	0.62	-0.48	23.39	
5,788.0	0.70	140.50	5,675.7	-905.1	434.6	-855.3	0.37	-0.37	0.37	
5,819.0	1.10	10.30	5,706.7	-904.9	434.8	-855.2	5.29	1.29	-420.00	
5,849.0	3.70	348.80	5,736.6	-903.7	434.6	-854.0	9.02	8.67	-71.67	
5,880.0	6.80	350.10	5,767.5	-900.9	434.1	-851.2	10.01	10.00	4.19	
5,911.0	9.80	350.80	5,798.2	-896.5	433.4	-846.9	9.68	9.68	2.26	
5,942.0	12.80	350.90	5,828.6	-890.5	432.4	-841.1	9.68	9.68	0.32	
5,974.0	15.10	352.50	5,859.6	-882.9	431.3	-833.6	7.29	7.19	5.00	
6,005.0	18.00	354.50	5,889.3	-874.1	430.3	-824.9	9.53	9.35	6.45	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,035.0	20.80	355.50	5,917.6	-864.2	429.5	-815.2	9.40	9.33	3.33
6,066.0	23.60	355.30	5,946.3	-852.5	428.5	-803.7	9.04	9.03	-0.65
6,098.0	25.90	357.10	5,975.4	-839.1	427.6	-790.4	7.56	7.19	5.63
6,129.0	28.60	358.70	6,002.9	-825.0	427.1	-776.4	9.02	8.71	5.16
6,160.0	31.70	358.90	6,029.7	-809.4	426.8	-760.9	10.01	10.00	0.65
6,192.0	34.70	359.70	6,056.5	-791.9	426.6	-743.5	9.47	9.38	2.50
6,223.0	37.00	0.80	6,081.6	-773.7	426.7	-725.5	7.70	7.42	3.55
6,254.0	39.70	0.60	6,105.9	-754.5	426.9	-706.3	8.72	8.71	-0.65
6,285.0	42.50	359.60	6,129.3	-734.1	426.9	-686.1	9.28	9.03	-3.23
6,316.0	45.30	358.50	6,151.6	-712.6	426.6	-664.7	9.36	9.03	-3.55
6,347.0	48.50	358.50	6,172.8	-690.0	426.0	-642.3	10.32	10.32	0.00
6,378.0	51.70	358.70	6,192.7	-666.2	425.4	-618.7	10.33	10.32	0.65
6,409.0	55.00	359.60	6,211.2	-641.4	425.1	-594.0	10.90	10.65	2.90
6,441.0	58.00	359.70	6,228.9	-614.7	424.9	-567.5	9.38	9.38	0.31
6,472.0	61.60	358.90	6,244.5	-587.9	424.6	-540.9	11.83	11.61	-2.58
6,503.0	64.80	358.70	6,258.4	-560.2	424.0	-513.4	10.34	10.32	-0.65
6,534.0	67.90	358.90	6,270.9	-531.8	423.4	-485.2	10.02	10.00	0.65
6,566.0	70.70	358.50	6,282.2	-501.9	422.7	-455.5	8.83	8.75	-1.25
6,597.0	73.50	358.30	6,291.7	-472.4	421.9	-426.3	9.05	9.03	-0.65
6,628.0	75.90	358.30	6,299.9	-442.6	421.0	-396.7	7.74	7.74	0.00
6,660.0	78.70	358.00	6,306.9	-411.4	420.0	-365.7	8.80	8.75	-0.94
6,691.0	82.40	358.30	6,312.0	-380.8	419.0	-335.5	11.97	11.94	0.97
6,722.0	86.30	358.50	6,315.1	-350.0	418.1	-304.9	12.60	12.58	0.65
6,740.6	87.70	359.02	6,316.0	-331.4	417.7	-286.4	8.01	7.50	2.81
T1 460'FSL & 1000'FWL									
6,754.0	88.70	359.40	6,316.5	-318.0	417.6	-273.1	8.01	7.50	2.81
6,785.0	89.00	359.20	6,317.1	-287.0	417.2	-242.4	1.16	0.97	-0.65
6,816.0	89.10	359.70	6,317.6	-256.0	416.9	-211.6	1.64	0.32	1.61
6,848.0	89.20	359.20	6,318.1	-224.0	416.6	-179.8	1.59	0.31	-1.56
6,898.0	89.20	359.20	6,318.8	-174.0	415.9	-130.1	0.00	0.00	0.00
6,914.0	90.60	0.40	6,318.8	-158.0	415.8	-114.2	11.52	8.75	7.50
6,946.0	91.20	359.20	6,318.3	-126.0	415.7	-82.4	4.19	1.88	-3.75
6,977.0	90.60	359.00	6,317.8	-95.0	415.2	-51.6	2.04	-1.94	-0.65
7,008.0	88.50	359.00	6,318.0	-64.1	414.7	-20.9	6.77	-6.77	0.00
7,037.0	89.10	359.20	6,318.7	-35.1	414.2	7.9	2.18	2.07	0.69
7,069.0	90.00	359.20	6,318.9	-3.1	413.8	39.7	2.81	2.81	0.00
7,100.0	90.00	358.70	6,318.9	27.9	413.2	70.5	1.61	0.00	-1.61
7,132.0	89.30	359.70	6,319.1	59.9	412.8	102.3	3.81	-2.19	3.13
7,163.0	89.90	359.60	6,319.3	90.9	412.6	133.1	1.96	1.94	-0.32
7,194.0	90.00	359.20	6,319.3	121.9	412.2	163.9	1.33	0.32	-1.29
7,225.0	89.30	359.20	6,319.5	152.9	411.8	194.7	2.26	-2.26	0.00
7,256.0	89.20	358.90	6,319.9	183.9	411.3	225.4	1.02	-0.32	-0.97
7,287.0	89.20	358.70	6,320.4	214.9	410.6	256.2	0.65	0.00	-0.65
7,319.0	89.50	359.00	6,320.7	246.9	410.0	287.9	1.33	0.94	0.94
7,350.0	89.70	358.90	6,320.9	277.9	409.4	318.7	0.72	0.65	-0.32
7,381.0	88.80	359.20	6,321.4	308.9	408.9	349.5	3.06	-2.90	0.97
7,411.0	89.10	359.20	6,321.9	338.9	408.5	379.3	1.00	1.00	0.00
7,443.0	89.50	359.20	6,322.3	370.9	408.1	411.0	1.25	1.25	0.00
7,474.0	90.50	0.40	6,322.3	401.9	407.9	441.9	5.04	3.23	3.87
7,505.0	91.00	0.10	6,321.9	432.9	408.1	472.7	1.88	1.61	-0.97
7,537.0	91.50	0.30	6,321.2	464.8	408.2	504.5	1.68	1.56	0.63
7,567.0	91.90	0.10	6,320.3	494.8	408.3	534.4	1.49	1.33	-0.67
7,599.0	91.30	0.80	6,319.4	526.8	408.6	566.2	2.88	-1.88	2.19
7,630.0	91.10	1.00	6,318.8	557.8	409.0	597.1	0.91	-0.65	0.65

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Site:	Peterson 14-28 Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4563.0ft (RKB 12')
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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

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)
7,661.0	90.10	0.80	6,318.4	588.8	409.5	628.0	3.29	-3.23	-0.65
7,693.0	90.40	0.80	6,318.3	620.8	410.0	659.8	0.94	0.94	0.00
7,722.0	89.80	1.00	6,318.2	649.8	410.4	688.7	2.18	-2.07	0.69
7,754.0	90.30	1.00	6,318.2	681.8	411.0	720.6	1.56	1.56	0.00
7,785.0	89.70	1.50	6,318.2	712.8	411.7	751.5	2.52	-1.94	1.61
7,816.0	89.70	1.30	6,318.4	743.8	412.4	782.4	0.65	0.00	-0.65
7,848.0	88.60	1.80	6,318.9	775.8	413.3	814.3	3.78	-3.44	1.56
7,879.0	88.90	1.30	6,319.5	806.7	414.1	845.2	1.88	0.97	-1.61
7,910.0	88.90	1.00	6,320.1	837.7	414.7	876.1	0.97	0.00	-0.97
7,942.0	89.50	0.60	6,320.6	869.7	415.2	908.0	2.25	1.88	-1.25
7,973.0	90.10	1.00	6,320.7	900.7	415.6	938.9	2.33	1.94	1.29
8,003.0	88.50	0.40	6,321.0	930.7	416.0	968.7	5.70	-5.33	-2.00
8,034.0	89.30	0.40	6,321.6	961.7	416.2	999.6	2.58	2.58	0.00
8,065.0	90.20	0.60	6,321.8	992.7	416.5	1,030.4	2.97	2.90	0.65
8,096.0	90.80	1.00	6,321.5	1,023.7	416.9	1,061.3	2.33	1.94	1.29
8,128.0	91.30	0.40	6,320.9	1,055.7	417.3	1,093.2	2.44	1.56	-1.88
8,159.0	92.00	0.80	6,320.0	1,086.7	417.6	1,124.0	2.60	2.26	1.29
8,190.0	91.20	1.00	6,319.2	1,117.7	418.1	1,154.9	2.66	-2.58	0.65
8,222.0	91.80	1.00	6,318.3	1,149.6	418.7	1,186.8	1.88	1.88	0.00
8,253.0	90.90	1.00	6,317.6	1,180.6	419.2	1,217.6	2.90	-2.90	0.00
8,284.0	91.00	1.00	6,317.1	1,211.6	419.8	1,248.5	0.32	0.32	0.00
8,316.0	89.90	0.80	6,316.8	1,243.6	420.3	1,280.4	3.49	-3.44	-0.63
8,347.0	89.70	0.60	6,316.9	1,274.6	420.6	1,311.3	0.91	-0.65	-0.65
8,378.0	88.50	1.50	6,317.4	1,305.6	421.2	1,342.1	4.84	-3.87	2.90
8,408.0	88.60	1.30	6,318.2	1,335.6	421.9	1,372.0	0.75	0.33	-0.67
8,439.0	88.90	1.00	6,318.9	1,366.6	422.6	1,402.9	1.37	0.97	-0.97
8,471.0	89.00	0.80	6,319.4	1,398.6	423.1	1,434.8	0.70	0.31	-0.63
8,502.0	89.10	1.00	6,320.0	1,429.6	423.5	1,465.7	0.72	0.32	0.65
8,533.0	89.30	1.30	6,320.4	1,460.5	424.2	1,496.6	1.16	0.65	0.97
8,563.0	89.60	1.00	6,320.7	1,490.5	424.8	1,526.5	1.41	1.00	-1.00
8,595.0	89.70	0.80	6,320.9	1,522.5	425.3	1,558.3	0.70	0.31	-0.63
8,626.0	89.80	0.60	6,321.0	1,553.5	425.7	1,589.2	0.72	0.32	-0.65
8,658.0	90.00	0.60	6,321.1	1,585.5	426.0	1,621.1	0.63	0.63	0.00
8,689.0	90.10	0.60	6,321.0	1,616.5	426.3	1,651.9	0.32	0.32	0.00
8,720.0	90.60	0.30	6,320.8	1,647.5	426.6	1,682.8	1.88	1.61	-0.97
8,751.0	90.90	0.60	6,320.4	1,678.5	426.8	1,713.6	1.37	0.97	0.97
8,783.0	91.50	0.30	6,319.8	1,710.5	427.1	1,745.5	2.10	1.88	-0.94
8,814.0	90.70	0.60	6,319.2	1,741.5	427.3	1,776.3	2.76	-2.58	0.97
8,845.0	90.30	0.40	6,318.9	1,772.5	427.6	1,807.2	1.44	-1.29	-0.65
8,877.0	89.40	1.00	6,319.0	1,804.5	428.0	1,839.1	3.38	-2.81	1.88
8,908.0	89.50	1.00	6,319.3	1,835.5	428.5	1,870.0	0.32	0.32	0.00
8,939.0	89.90	1.00	6,319.5	1,866.5	429.0	1,900.8	1.29	1.29	0.00
8,970.0	90.10	0.80	6,319.5	1,897.5	429.5	1,931.7	0.91	0.65	-0.65
9,002.0	89.30	1.30	6,319.6	1,929.5	430.1	1,963.6	2.95	-2.50	1.56
9,033.0	89.10	1.10	6,320.1	1,960.5	430.8	1,994.5	0.91	-0.65	-0.65
9,065.0	89.70	1.10	6,320.4	1,992.5	431.4	2,026.4	1.88	1.88	0.00
9,096.0	89.90	1.10	6,320.5	2,023.5	432.0	2,057.3	0.65	0.65	0.00
9,127.0	89.20	1.30	6,320.7	2,054.4	432.6	2,088.2	2.35	-2.26	0.65
9,159.0	89.00	1.70	6,321.2	2,086.4	433.5	2,120.1	1.40	-0.63	1.25
9,190.0	89.30	1.10	6,321.7	2,117.4	434.2	2,151.0	2.16	0.97	-1.94
9,221.0	89.50	1.10	6,322.0	2,148.4	434.8	2,181.8	0.65	0.65	0.00
9,252.0	89.90	1.10	6,322.2	2,179.4	435.4	2,212.7	1.29	1.29	0.00
9,283.0	90.30	1.00	6,322.1	2,210.4	436.0	2,243.6	1.33	1.29	-0.32
9,315.0	90.70	1.30	6,321.9	2,242.4	436.6	2,275.5	1.56	1.25	0.94

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte J-F-28HZ
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4563.0ft (RKB 12')
Site:	Peterson 14-28 Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4563.0ft (RKB 12')
Well:	North Platte J-F-28HZ	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

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)	
9,346.0	89.90	0.60	6,321.7	2,273.4	437.1	2,306.4	3.43	-2.58	-2.26	
9,377.0	89.80	0.40	6,321.8	2,304.4	437.4	2,337.3	0.72	-0.32	-0.65	
9,409.0	89.10	0.10	6,322.1	2,336.4	437.5	2,369.1	2.38	-2.19	-0.94	
9,440.0	89.10	359.70	6,322.6	2,367.4	437.5	2,399.9	1.29	0.00	-1.29	
9,471.0	89.30	359.90	6,323.0	2,398.4	437.4	2,430.7	0.91	0.65	0.65	
9,503.0	89.60	359.60	6,323.3	2,430.4	437.2	2,462.6	1.33	0.94	-0.94	
9,534.0	90.10	359.90	6,323.4	2,461.4	437.1	2,493.4	1.88	1.61	0.97	
9,565.0	90.10	359.00	6,323.3	2,492.4	436.8	2,524.2	2.90	0.00	-2.90	
9,597.0	89.90	358.70	6,323.3	2,524.4	436.2	2,555.9	1.13	-0.63	-0.94	
9,628.0	88.60	358.00	6,323.7	2,555.4	435.3	2,586.7	4.76	-4.19	-2.26	
9,659.0	88.40	358.10	6,324.6	2,586.3	434.2	2,617.3	0.72	-0.65	0.32	
9,690.0	88.60	357.60	6,325.4	2,617.3	433.1	2,648.0	1.74	0.65	-1.61	
9,722.0	89.30	357.80	6,325.9	2,649.3	431.8	2,679.7	2.28	2.19	0.63	
9,753.0	90.00	358.00	6,326.1	2,680.2	430.6	2,710.4	2.35	2.26	0.65	
9,783.0	90.40	358.00	6,326.0	2,710.2	429.6	2,740.1	1.33	1.33	0.00	
9,815.0	90.70	357.80	6,325.7	2,742.2	428.4	2,771.8	1.13	0.94	-0.63	
9,846.0	90.90	358.10	6,325.3	2,773.2	427.3	2,802.5	1.16	0.65	0.97	
9,877.0	90.40	358.70	6,324.9	2,804.2	426.4	2,833.2	2.52	-1.61	1.94	
9,909.0	90.00	358.90	6,324.8	2,836.2	425.8	2,865.0	1.40	-1.25	0.63	
9,940.0	90.70	358.50	6,324.6	2,867.1	425.1	2,895.7	2.60	2.26	-1.29	
9,972.0	91.10	358.30	6,324.1	2,899.1	424.2	2,927.4	1.40	1.25	-0.63	
10,003.0	91.30	359.40	6,323.5	2,930.1	423.5	2,958.2	3.61	0.65	3.55	
10,034.0	91.10	359.70	6,322.8	2,961.1	423.3	2,989.0	1.16	-0.65	0.97	
10,065.0	90.20	359.90	6,322.5	2,992.1	423.2	3,019.8	2.97	-2.90	0.65	
10,096.0	90.10	0.10	6,322.4	3,023.1	423.2	3,050.7	0.72	-0.32	0.65	
10,128.0	90.50	359.90	6,322.2	3,055.1	423.2	3,082.5	1.40	1.25	-0.63	
10,159.0	89.90	0.10	6,322.1	3,086.1	423.2	3,113.3	2.04	-1.94	0.65	
10,189.0	89.80	0.40	6,322.2	3,116.1	423.3	3,143.2	1.05	-0.33	1.00	
10,221.0	89.30	0.30	6,322.5	3,148.1	423.5	3,175.0	1.59	-1.56	-0.31	
10,252.0	89.40	0.30	6,322.8	3,179.1	423.7	3,205.9	0.32	0.32	0.00	
10,283.0	89.70	359.90	6,323.1	3,210.1	423.7	3,236.7	1.61	0.97	-1.29	
10,314.0	89.90	0.40	6,323.2	3,241.1	423.8	3,267.5	1.74	0.65	1.61	
10,346.0	89.60	0.30	6,323.3	3,273.1	424.0	3,299.4	0.99	-0.94	-0.31	
10,377.0	89.80	359.60	6,323.5	3,304.1	424.0	3,330.2	2.35	0.65	-2.26	
10,409.0	90.00	359.90	6,323.5	3,336.1	423.8	3,362.0	1.13	0.63	0.94	
10,440.0	90.20	359.70	6,323.5	3,367.1	423.7	3,392.9	0.91	0.65	-0.65	
10,471.0	89.60	0.30	6,323.5	3,398.1	423.7	3,423.7	2.74	-1.94	1.94	
10,502.0	89.70	0.30	6,323.7	3,429.1	423.9	3,454.5	0.32	0.32	0.00	
10,533.0	90.60	0.60	6,323.6	3,460.1	424.1	3,485.4	3.06	2.90	0.97	
10,564.0	91.10	0.80	6,323.2	3,491.1	424.5	3,516.3	1.74	1.61	0.65	
10,595.0	90.10	1.00	6,322.8	3,522.1	425.0	3,547.1	3.29	-3.23	0.65	
10,626.0	89.80	1.00	6,322.9	3,553.1	425.6	3,578.0	0.97	-0.97	0.00	
10,657.0	88.90	1.30	6,323.2	3,584.1	426.2	3,608.9	3.06	-2.90	0.97	
10,689.0	88.50	1.50	6,324.0	3,616.0	427.0	3,640.8	1.40	-1.25	0.63	
10,720.0	89.00	1.10	6,324.6	3,647.0	427.7	3,671.7	2.07	1.61	-1.29	
10,751.0	89.30	1.30	6,325.1	3,678.0	428.3	3,702.6	1.16	0.97	0.65	
10,782.0	89.50	1.10	6,325.4	3,709.0	429.0	3,733.5	0.91	0.65	-0.65	
10,814.0	90.10	0.80	6,325.5	3,741.0	429.5	3,765.4	2.10	1.88	-0.94	
10,845.0	90.70	1.30	6,325.3	3,772.0	430.1	3,796.2	2.52	1.94	1.61	
10,876.0	91.40	1.00	6,324.7	3,803.0	430.7	3,827.1	2.46	2.26	-0.97	
10,908.0	91.10	1.80	6,324.0	3,835.0	431.5	3,859.0	2.67	-0.94	2.50	
10,938.0	91.00	2.00	6,323.5	3,865.0	432.5	3,888.9	0.75	-0.33	0.67	
10,968.0	90.70	1.80	6,323.0	3,894.9	433.5	3,918.9	1.20	-1.00	-0.67	
10,999.0	90.40	1.10	6,322.7	3,925.9	434.2	3,949.8	2.46	-0.97	-2.26	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well North Platte J-F-28HZ
Project:	SEC.28-T5N-R63W	TVD Reference:	WELL @ 4563.0ft (RKB 12')
Site:	Peterson 14-28 Pad Sec.28-T5N-R63W	MD Reference:	WELL @ 4563.0ft (RKB 12')
Well:	North Platte J-F-28HZ	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

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)
11,030.0	90.90	1.00	6,322.4	3,956.9	434.8	3,980.7	1.64	1.61	-0.32
11,080.0	90.90	1.00	6,321.6	4,006.9	435.7	4,030.5	0.00	0.00	0.00
BHL 460'FNL & 1000'FWL									

Wellbore 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 460'FNL & 1000'	0.00	0.00	6,318.0	4,022.0	417.9	1,381,734.47	3,293,405.26	40.376480	-104.446860
- survey misses target center by 23.6ft at 11080.0ft MD (6321.6 TVD, 4006.9 N, 435.7 E)									
- Point									
T1 460'FSL & 1000'FV	0.00	0.00	6,318.0	-331.5	415.2	1,377,381.43	3,293,454.17	40.364530	-104.446870
- survey misses target center by 3.2ft at 6740.6ft MD (6316.0 TVD, -331.4 N, 417.7 E)									
- Point									

Checked By: _____ Approved By: _____ Date: _____