

BONANZA CREEK ENERGY OPERATING

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

Surface Location: State North Platte 11-14-26HC Pad Sec.26-T5N-R63W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

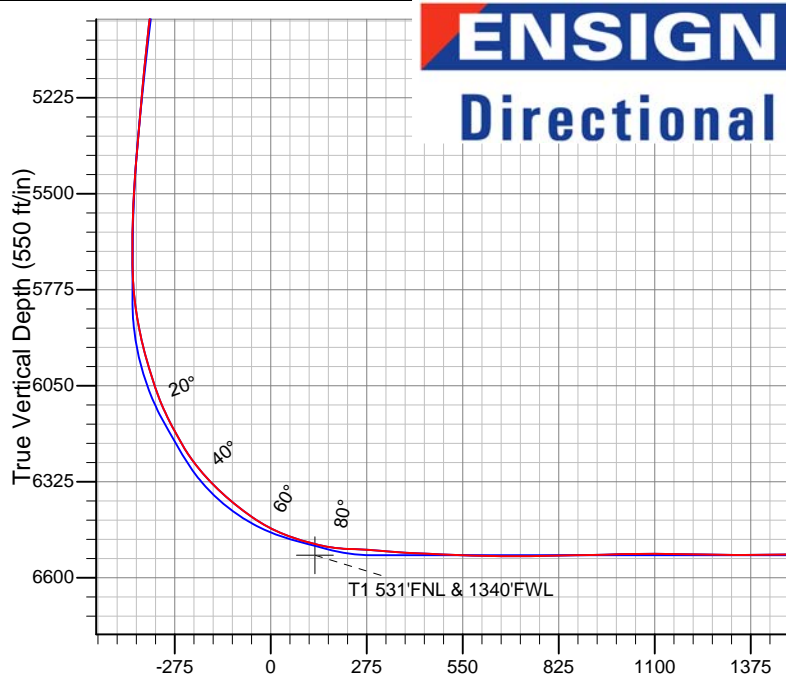
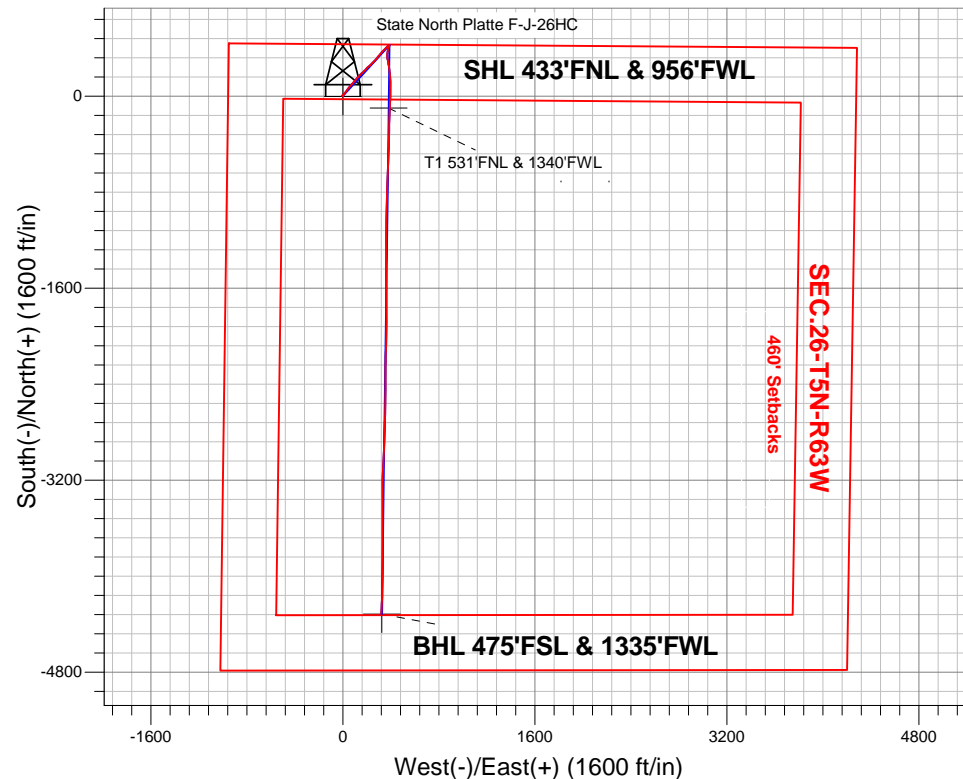
Ground Elevation: 4565.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1381796.39	3303950.57	40.376300	-104.409010	

Ensign 136 RKB - 12' WELL @ 4577.0ft (Ensign 136 RKB - 12')

FINAL SURVEY

Projected Bottom Hole Location
10994'MD 6498'TVD 4313'S & 321'E of SHL
90.8 degree Incl @ 182.0 degree AZM



ENSIGN
Directional

State North Platte 11-14-26HC Pad Sec.26-T5N-R63W
State North Platte F-J-26HC

7:41, January 13 2014

Wellbore #1

ANNOTATIONS

No annotation data is available.

LEGEND

- x State North Platte F-J-26HC, Wellbore #1, Plan #4 (11-12-13)R V0
- Wellbore #1
- Survey #1

BHL 475'FSL & 1335'FWL

Vertical Section at 175.68° (550 ft/in)



BONANZA CREEK ENERGY OPERATING

SEC.26-T5N-R63W

State North Platte 11-14-26HC Pad Sec.26-T5N-R63W

State North Platte F-J-26HC

Wellbore #1

Survey: Survey #1

Standard Survey Report

13 January, 2014

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte F-J-26HC
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4577.0ft (Ensign 136 RKB - 12')
Site:	State North Platte 11-14-26HC Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4577.0ft (Ensign 136 RKB - 12')
Well:	State North Platte F-J-26HC	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.26-T5N-R63W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	State North Platte 11-14-26HC Pad Sec.26-T5N-R63W				
Site Position:		Northing:	1,381,792.75 ft	Latitude:	40.376290
From:	Lat/Long	Easting:	3,303,950.61 ft	Longitude:	-104.409010
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.70 °

Well	State North Platte F-J-26HC					
Well Position	+N-S	0.0 ft	Northing:	1,381,796.39 ft	Latitude:	40.376300
	+E-W	0.0 ft	Easting:	3,303,950.57 ft	Longitude:	-104.409010
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,565.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/12/2013	8.34	67.01	52,904

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	175.68	

Survey Program	Date	1/9/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
79.0	10,994.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

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	0.01	308.40	1.0	0.0	0.0	0.0	0.51	0.51	0.00	
SHL 437°FNL & 956°FWL										
79.0	0.40	308.40	79.0	0.2	-0.2	-0.2	0.51	0.51	0.00	
169.0	0.50	297.30	169.0	0.5	-0.8	-0.6	0.15	0.11	-12.33	
273.0	0.50	320.50	273.0	1.1	-1.5	-1.2	0.19	0.00	22.31	
400.0	0.80	320.20	400.0	2.2	-2.4	-2.4	0.24	0.24	-0.24	
537.0	0.70	320.00	537.0	3.6	-3.6	-3.8	0.07	-0.07	-0.15	
686.0	1.60	62.00	686.0	5.3	-2.3	-5.4	1.26	0.60	68.46	
724.0	0.70	146.90	723.9	5.3	-1.7	-5.4	4.44	-2.37	223.42	
818.0	0.90	270.80	817.9	4.8	-2.2	-5.0	1.51	0.21	131.81	
911.0	1.10	48.20	910.9	5.5	-2.2	-5.6	2.01	0.22	147.74	

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Well:	State North Platte F-J-26HC	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)
1,004.0	1.10	68.60	1,003.9	6.4	-0.7	-6.4	0.42	0.00	21.94
1,095.0	1.10	54.70	1,094.9	7.2	0.8	-7.1	0.29	0.00	-15.27
1,186.0	0.40	163.20	1,185.9	7.4	1.6	-7.3	1.41	-0.77	119.23
1,276.0	0.90	63.70	1,275.9	7.4	2.3	-7.2	1.16	0.56	-110.56
1,367.0	0.40	108.90	1,366.9	7.6	3.3	-7.4	0.75	-0.55	49.67
1,471.0	1.70	31.70	1,470.9	8.8	4.4	-8.5	1.59	1.25	-74.23
1,598.0	3.30	31.00	1,597.7	13.6	7.3	-13.0	1.26	1.26	-0.55
1,725.0	2.90	51.80	1,724.6	18.7	11.7	-17.7	0.93	-0.31	16.38
1,853.0	4.00	36.10	1,852.3	24.3	16.9	-22.9	1.13	0.86	-12.27
1,980.0	5.80	37.30	1,978.9	33.0	23.4	-31.1	1.42	1.42	0.94
2,107.0	6.70	31.70	2,105.1	44.4	31.2	-41.9	0.86	0.71	-4.41
2,233.0	7.40	37.20	2,230.2	57.1	39.9	-53.9	0.77	0.56	4.37
2,360.0	7.80	40.50	2,356.0	70.2	50.5	-66.2	0.47	0.31	2.60
2,486.0	8.40	41.00	2,480.8	83.6	62.1	-78.7	0.48	0.48	0.40
2,614.0	9.20	44.00	2,607.3	98.0	75.3	-92.1	0.72	0.63	2.34
2,742.0	9.00	36.80	2,733.7	113.4	88.4	-106.4	0.90	-0.16	-5.63
2,870.0	9.10	41.40	2,860.1	129.0	101.1	-121.0	0.57	0.08	3.59
2,998.0	8.50	43.00	2,986.6	143.5	114.3	-134.5	0.51	-0.47	1.25
3,127.0	9.50	40.20	3,114.0	158.6	127.6	-148.6	0.85	0.78	-2.17
3,255.0	7.30	41.60	3,240.6	172.8	139.8	-161.8	1.73	-1.72	1.09
3,383.0	9.30	49.10	3,367.3	185.6	153.1	-173.6	1.77	1.56	5.86
3,512.0	9.30	44.60	3,494.6	199.9	168.3	-186.6	0.56	0.00	-3.49
3,640.0	9.40	44.60	3,620.9	214.7	182.9	-200.3	0.08	0.08	0.00
3,768.0	9.20	41.90	3,747.2	229.7	197.0	-214.3	0.37	-0.16	-2.11
3,897.0	9.10	49.60	3,874.5	244.0	211.7	-227.4	0.95	-0.08	5.97
4,025.0	8.30	47.40	4,001.1	256.8	226.2	-239.1	0.68	-0.63	-1.72
4,153.0	8.50	47.40	4,127.7	269.5	240.0	-250.7	0.16	0.16	0.00
4,337.0	9.40	43.50	4,309.5	289.6	260.3	-269.2	0.59	0.49	-2.12
4,410.0	8.40	45.40	4,381.6	297.7	268.2	-276.6	1.43	-1.37	2.60
4,538.0	9.40	39.50	4,508.0	312.3	281.5	-290.2	1.06	0.78	-4.61
4,666.0	8.50	37.70	4,634.5	327.9	294.0	-304.8	0.74	-0.70	-1.41
4,795.0	10.10	41.20	4,761.8	343.9	307.2	-319.8	1.31	1.24	2.71
4,923.0	8.80	41.40	4,888.0	359.7	321.1	-334.5	1.02	-1.02	0.16
5,051.0	8.80	40.20	5,014.5	374.5	333.9	-348.3	0.14	0.00	-0.94
5,179.0	9.10	47.50	5,141.0	388.8	347.7	-361.6	0.92	0.23	5.70
5,308.0	7.40	44.90	5,268.6	401.6	361.1	-373.3	1.35	-1.32	-2.02
5,436.0	7.40	42.60	5,395.6	413.5	372.5	-384.3	0.23	0.00	-1.80
5,564.0	4.60	52.10	5,522.9	422.8	382.1	-392.8	2.31	-2.19	7.42
5,693.0	1.30	64.20	5,651.7	426.6	387.5	-396.2	2.59	-2.56	9.38
5,735.0	1.40	153.70	5,693.7	426.3	388.2	-395.9	4.53	0.24	213.10
5,779.0	1.80	166.00	5,737.6	425.2	388.6	-394.7	1.19	0.91	27.95
5,822.0	5.50	191.90	5,780.6	422.5	388.3	-392.0	9.21	8.60	60.23
5,865.0	8.60	201.20	5,823.2	417.5	386.7	-387.2	7.66	7.21	21.63
5,908.0	11.80	199.40	5,865.5	410.3	384.1	-380.2	7.48	7.44	-4.19
5,950.0	12.70	200.30	5,906.6	401.9	381.1	-372.1	2.19	2.14	2.14
5,993.0	15.30	197.80	5,948.3	392.1	377.7	-362.6	6.21	6.05	-5.81
6,036.0	17.10	190.30	5,989.6	380.5	374.8	-351.2	6.41	4.19	-17.44
6,079.0	17.70	189.20	6,030.6	367.8	372.6	-338.7	1.59	1.40	-2.56
6,121.0	20.10	184.80	6,070.4	354.3	371.0	-325.4	6.64	5.71	-10.48
6,164.0	23.70	180.60	6,110.3	338.3	370.3	-309.5	9.13	8.37	-9.77
6,207.0	26.90	173.90	6,149.1	320.0	371.3	-291.1	9.98	7.44	-15.58
6,250.0	28.80	168.70	6,187.2	300.2	374.3	-271.1	7.17	4.42	-12.09
6,293.0	30.70	168.70	6,224.5	279.2	378.5	-249.9	4.42	4.42	0.00

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Well:	State North Platte F-J-26HC	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)
6,335.0	35.30	170.40	6,259.7	256.7	382.6	-227.2	11.17	10.95	4.05
6,378.0	40.40	172.00	6,293.7	230.7	386.6	-200.9	12.08	11.86	3.72
6,421.0	43.70	174.50	6,325.6	202.1	390.0	-172.1	8.60	7.67	5.81
6,464.0	47.40	176.20	6,355.7	171.5	392.5	-141.4	9.06	8.60	3.95
6,506.0	50.20	176.20	6,383.3	140.0	394.6	-109.8	6.67	6.67	0.00
6,549.0	52.90	177.40	6,410.1	106.3	396.4	-76.2	6.65	6.28	2.79
6,592.0	57.20	178.80	6,434.7	71.1	397.6	-41.0	10.35	10.00	3.26
6,635.0	62.20	181.10	6,456.4	34.0	397.6	-4.0	12.51	11.63	5.35
6,678.0	67.80	182.20	6,474.6	-4.9	396.5	34.8	13.23	13.02	2.56
6,720.0	73.20	183.80	6,488.6	-44.4	394.4	74.0	13.35	12.86	3.81
6,763.0	74.30	183.40	6,500.6	-85.6	391.8	114.9	2.71	2.56	-0.93
6,783.9	76.78	182.81	6,505.8	-105.8	390.7	135.0	12.17	11.86	-2.82
T1 531'FNL & 1340'FWL									
6,806.0	79.40	182.20	6,510.4	-127.5	389.8	156.4	12.17	11.86	-2.76
6,849.0	85.20	181.00	6,516.2	-170.0	388.6	198.8	13.77	13.49	-2.79
6,892.0	88.20	181.30	6,518.6	-212.9	387.7	241.5	7.01	6.98	0.70
6,934.0	86.60	180.60	6,520.5	-254.9	387.0	283.3	4.16	-3.81	-1.67
6,977.0	84.40	181.70	6,523.9	-297.8	386.2	326.0	5.72	-5.12	2.56
7,060.0	87.60	181.70	6,529.7	-380.5	383.7	408.3	3.86	3.86	0.00
7,103.0	87.60	181.50	6,531.5	-423.4	382.5	451.1	0.46	0.00	-0.47
7,145.0	87.50	182.00	6,533.3	-465.4	381.2	492.8	1.21	-0.24	1.19
7,187.0	87.60	181.80	6,535.1	-507.3	379.8	534.5	0.53	0.24	-0.48
7,230.0	88.00	182.70	6,536.7	-550.3	378.2	577.2	2.29	0.93	2.09
7,272.0	88.50	182.20	6,538.0	-592.2	376.4	618.9	1.68	1.19	-1.19
7,315.0	89.60	182.70	6,538.7	-635.2	374.5	661.6	2.81	2.56	1.16
7,357.0	90.90	182.50	6,538.6	-677.1	372.6	703.3	3.13	3.10	-0.48
7,400.0	91.00	182.50	6,537.8	-720.1	370.7	745.9	0.23	0.23	0.00
7,442.0	90.60	181.30	6,537.3	-762.0	369.4	787.7	3.01	-0.95	-2.86
7,484.0	91.30	181.30	6,536.6	-804.0	368.4	829.5	1.67	1.67	0.00
7,527.0	90.90	180.80	6,535.7	-847.0	367.6	872.3	1.49	-0.93	-1.16
7,569.0	90.90	180.80	6,535.1	-889.0	367.0	914.1	0.00	0.00	0.00
7,611.0	91.40	180.80	6,534.2	-931.0	366.4	955.9	1.19	1.19	0.00
7,654.0	91.40	182.00	6,533.2	-974.0	365.4	998.7	2.79	0.00	2.79
7,697.0	91.30	182.00	6,532.2	-1,016.9	363.9	1,041.4	0.23	-0.23	0.00
7,739.0	89.90	181.70	6,531.7	-1,058.9	362.5	1,083.2	3.41	-3.33	-0.71
7,782.0	89.40	181.00	6,532.0	-1,101.9	361.5	1,126.0	2.00	-1.16	-1.63
7,825.0	89.30	180.40	6,532.5	-1,144.9	361.0	1,168.8	1.41	-0.23	-1.40
7,868.0	89.20	179.40	6,533.0	-1,187.9	361.1	1,211.7	2.34	-0.23	-2.33
7,911.0	88.70	179.40	6,533.8	-1,230.9	361.5	1,254.6	1.16	-1.16	0.00
7,953.0	89.00	180.10	6,534.7	-1,272.9	361.7	1,296.5	1.81	0.71	1.67
7,996.0	89.80	179.70	6,535.1	-1,315.8	361.8	1,339.4	2.08	1.86	-0.93
8,039.0	90.70	180.60	6,534.9	-1,358.8	361.7	1,382.2	2.96	2.09	2.09
8,082.0	90.70	180.30	6,534.4	-1,401.8	361.3	1,425.1	0.70	0.00	-0.70
8,125.0	90.70	179.60	6,533.9	-1,444.8	361.4	1,468.0	1.63	0.00	-1.63
8,167.0	91.60	179.90	6,533.0	-1,486.8	361.5	1,509.8	2.26	2.14	0.71
8,210.0	92.60	179.90	6,531.5	-1,529.8	361.6	1,552.7	2.33	2.33	0.00
8,253.0	92.20	179.40	6,529.7	-1,572.8	361.9	1,595.5	1.49	-0.93	-1.16
8,296.0	91.50	179.70	6,528.3	-1,615.7	362.2	1,638.4	1.77	-1.63	0.70
8,338.0	91.10	179.60	6,527.3	-1,657.7	362.5	1,680.3	0.98	-0.95	-0.24
8,381.0	90.50	179.40	6,526.7	-1,700.7	362.9	1,723.2	1.47	-1.40	-0.47
8,424.0	91.00	179.20	6,526.2	-1,743.7	363.4	1,766.1	1.25	1.16	-0.47
8,467.0	91.10	179.20	6,525.4	-1,786.7	364.0	1,809.0	0.23	0.23	0.00
8,510.0	91.50	179.20	6,524.4	-1,829.7	364.6	1,851.9	0.93	0.93	0.00

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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)
8,552.0	91.70	180.30	6,523.2	-1,871.7	364.8	1,893.8	2.66	0.48	2.62
8,595.0	91.50	181.70	6,522.0	-1,914.6	364.0	1,936.6	3.29	-0.47	3.26
8,638.0	90.80	181.10	6,521.2	-1,957.6	363.0	1,979.4	2.14	-1.63	-1.40
8,681.0	91.20	181.50	6,520.4	-2,000.6	362.0	2,022.2	1.32	0.93	0.93
8,723.0	90.90	181.50	6,519.6	-2,042.6	360.9	2,064.0	0.71	-0.71	0.00
8,766.0	90.90	181.30	6,519.0	-2,085.6	359.8	2,106.7	0.47	0.00	-0.47
8,809.0	91.30	182.00	6,518.1	-2,128.5	358.6	2,149.5	1.87	0.93	1.63
8,852.0	91.30	180.60	6,517.2	-2,171.5	357.6	2,192.3	3.25	0.00	-3.26
8,895.0	91.40	181.10	6,516.1	-2,214.5	357.0	2,235.1	1.19	0.23	1.16
8,937.0	91.50	180.80	6,515.1	-2,256.5	356.3	2,276.9	0.75	0.24	-0.71
8,980.0	92.00	181.00	6,513.8	-2,299.5	355.6	2,319.7	1.25	1.16	0.47
9,023.0	92.00	180.60	6,512.3	-2,342.4	355.0	2,362.5	0.93	0.00	-0.93
9,066.0	91.20	180.40	6,511.1	-2,385.4	354.6	2,405.3	1.92	-1.86	-0.47
9,108.0	91.00	180.40	6,510.3	-2,427.4	354.3	2,447.2	0.48	-0.48	0.00
9,151.0	91.40	180.80	6,509.4	-2,470.4	353.9	2,490.0	1.32	0.93	0.93
9,194.0	90.70	180.60	6,508.6	-2,513.4	353.4	2,532.8	1.69	-1.63	-0.47
9,237.0	90.50	180.40	6,508.1	-2,556.4	353.0	2,575.7	0.66	-0.47	-0.47
9,279.0	90.30	180.30	6,507.8	-2,598.4	352.7	2,617.6	0.53	-0.48	-0.24
9,322.0	90.20	179.90	6,507.6	-2,641.4	352.7	2,660.4	0.96	-0.23	-0.93
9,365.0	90.30	181.00	6,507.5	-2,684.4	352.3	2,703.3	2.57	0.23	2.56
9,408.0	89.90	181.30	6,507.4	-2,727.4	351.5	2,746.1	1.16	-0.93	0.70
9,450.0	90.00	181.70	6,507.4	-2,769.3	350.4	2,787.9	0.98	0.24	0.95
9,493.0	90.10	182.20	6,507.4	-2,812.3	348.9	2,830.6	1.19	0.23	1.16
9,536.0	90.40	182.90	6,507.2	-2,855.3	347.0	2,873.3	1.77	0.70	1.63
9,578.0	90.70	182.90	6,506.8	-2,897.2	344.9	2,915.0	0.71	0.71	0.00
9,621.0	91.10	183.80	6,506.1	-2,940.1	342.4	2,957.6	2.29	0.93	2.09
9,664.0	91.00	183.80	6,505.3	-2,983.0	339.5	3,000.1	0.23	-0.23	0.00
9,707.0	90.40	182.90	6,504.8	-3,026.0	337.0	3,042.7	2.52	-1.40	-2.09
9,749.0	89.70	182.50	6,504.8	-3,067.9	335.0	3,084.4	1.92	-1.67	-0.95
9,792.0	89.80	181.30	6,505.0	-3,110.9	333.6	3,127.2	2.80	0.23	-2.79
9,835.0	90.00	181.30	6,505.0	-3,153.9	332.6	3,170.0	0.47	0.47	0.00
9,878.0	89.30	180.80	6,505.3	-3,196.9	331.8	3,212.8	2.00	-1.63	-1.16
9,920.0	89.20	179.90	6,505.8	-3,238.9	331.6	3,254.6	2.16	-0.24	-2.14
9,963.0	89.40	179.70	6,506.4	-3,281.9	331.7	3,297.5	0.66	0.47	-0.47
10,006.0	89.10	180.30	6,506.9	-3,324.9	331.7	3,340.4	1.56	-0.70	1.40
10,048.0	89.30	180.10	6,507.5	-3,366.9	331.6	3,382.3	0.67	0.48	-0.48
10,091.0	89.50	179.60	6,508.0	-3,409.8	331.7	3,425.1	1.25	0.47	-1.16
10,134.0	89.40	178.80	6,508.4	-3,452.8	332.3	3,468.1	1.87	-0.23	-1.86
10,177.0	90.40	179.70	6,508.5	-3,495.8	332.8	3,511.0	3.13	2.33	2.09
10,220.0	91.00	180.30	6,507.9	-3,538.8	332.8	3,553.9	1.97	1.40	1.40
10,262.0	90.00	180.10	6,507.6	-3,580.8	332.7	3,595.7	2.43	-2.38	-0.48
10,305.0	90.50	180.40	6,507.4	-3,623.8	332.5	3,638.6	1.36	1.16	0.70
10,348.0	91.10	179.90	6,506.8	-3,666.8	332.4	3,681.4	1.82	1.40	-1.16
10,391.0	90.50	179.90	6,506.2	-3,709.8	332.5	3,724.3	1.40	-1.40	0.00
10,433.0	90.20	180.40	6,505.9	-3,751.8	332.4	3,766.2	1.39	-0.71	1.19
10,476.0	90.20	179.90	6,505.8	-3,794.8	332.3	3,809.1	1.16	0.00	-1.16
10,519.0	90.20	180.60	6,505.6	-3,837.8	332.1	3,851.9	1.63	0.00	1.63
10,562.0	90.20	180.60	6,505.5	-3,880.8	331.6	3,894.8	0.00	0.00	0.00
10,604.0	90.70	180.30	6,505.1	-3,922.8	331.3	3,936.6	1.39	1.19	-0.71
10,647.0	91.40	180.60	6,504.3	-3,965.8	330.9	3,979.5	1.77	1.63	0.70
10,690.0	91.50	181.00	6,503.3	-4,008.8	330.3	4,022.3	0.96	0.23	0.93
10,733.0	91.40	181.10	6,502.2	-4,051.8	329.6	4,065.1	0.33	-0.23	0.23
10,776.0	91.50	181.10	6,501.1	-4,094.7	328.7	4,107.9	0.23	0.23	0.00

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte F-J-26HC
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4577.0ft (Ensign 136 RKB - 12')
Site:	State North Platte 11-14-26HC Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4577.0ft (Ensign 136 RKB - 12')
Well:	State North Platte F-J-26HC	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)
10,818.0	90.70	181.80	6,500.3	-4,136.7	327.7	4,149.7	2.53	-1.90	1.67
10,861.0	90.90	181.80	6,499.7	-4,179.7	326.3	4,192.4	0.47	0.47	0.00
10,904.0	91.00	182.50	6,499.0	-4,222.7	324.7	4,235.1	1.64	0.23	1.63
10,939.0	90.80	182.50	6,498.4	-4,257.6	323.2	4,269.9	0.57	-0.57	0.00
10,994.0	90.80	182.00	6,497.6	-4,312.6	321.0	4,324.5	0.91	0.00	-0.91
BHL 470'FSL & 1340'FWL									

Checked By: _____	Approved By: _____	Date: _____
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