

# **BONANZA CREEK ENERGY**

**WELD COUNTY**

**SEC 2-T5N-R62W**

**WHITETAIL 14-44-35HN**

**OWB**

**Design: FINAL SURVEY**

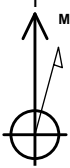
## **Standard Survey Report**

**17 November, 2022**

Project: WELD COUNTY  
Site: SEC 2-T5N-R62W  
Well: WHITETAIL 14-44-35HN  
Wellbore: OWB  
Design: FINAL SURVEY

PROJECT DETAILS: WELD COUNTY

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone  
System Datum: Mean Sea Level



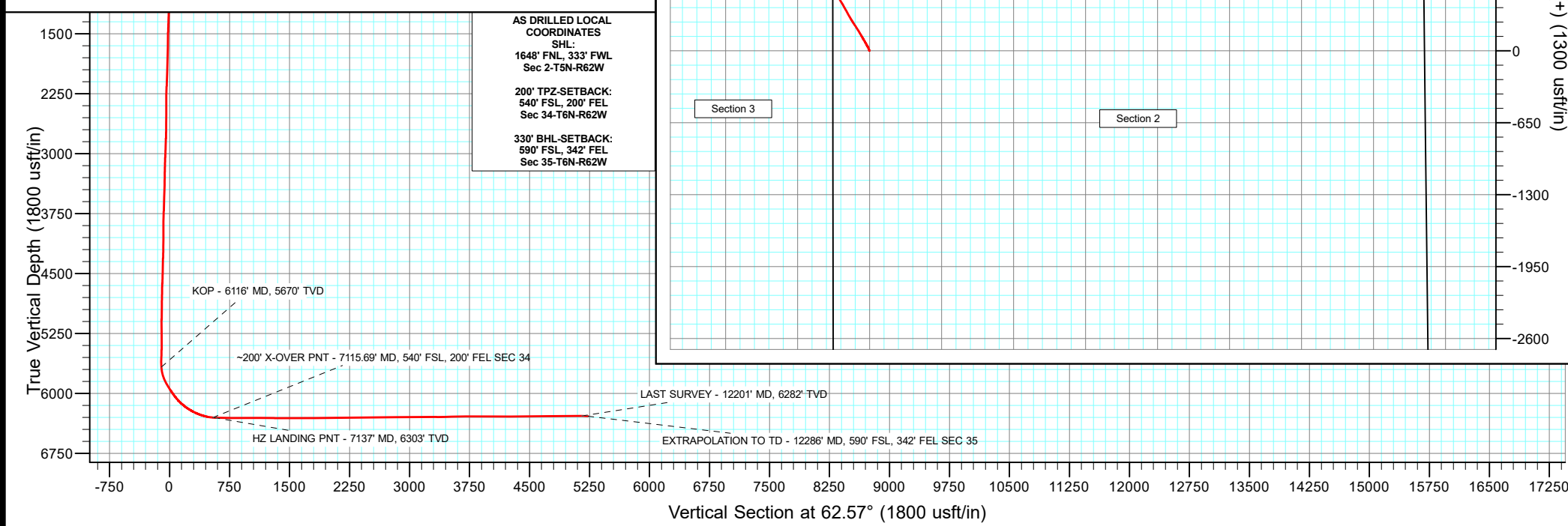
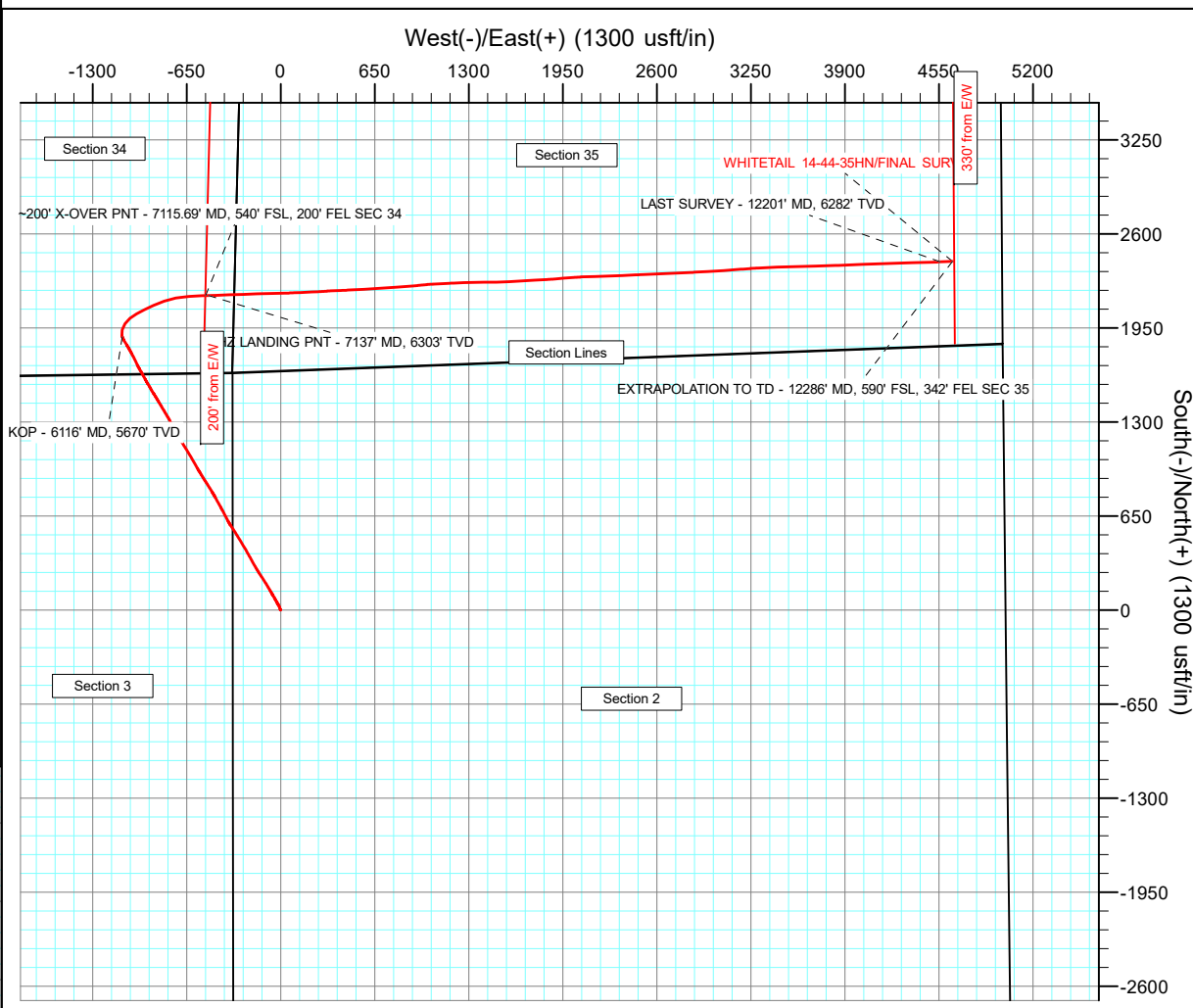
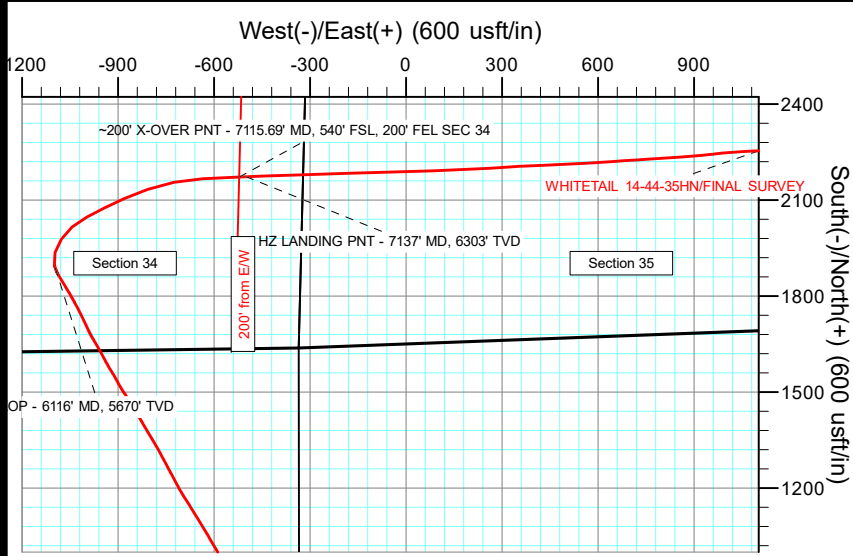
Azimuths to True North  
Magnetic North: 7.52°  
Magnetic Field  
Strength: 51932.3nT  
Dip Angle: 66.71°  
Date: 4/13/2022  
Model: IGRF2020

WELL DETAILS: WHITETAIL 14-44-35HN

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1402569.99	3334366.18	40.432240°N	104.298840°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
6116.00	22.48	341.20	5670.30	1886.95	-1095.66	-103.35	2185.96	KOP - 6116' MD, 5670' TVD
7115.69	85.53	87.48	6301.28	2172.26	-520.54	538.54	2890.57	~200' X-OVER PNT - 7115.69' MD, 540' FSL, 200' FEL SEC 34
7137.00	86.69	87.70	6302.73	2173.15	-499.30	557.81	2911.84	HZ LANDING PNT - 7137' MD, 6303' TVD
12201.00	89.19	87.49	6282.11	2405.78	4558.17	5153.97	7975.45	LAST SURVEY - 12201' MD, 6282' TVD
12286.00	89.19	87.49	6283.31	2409.51	4643.08	5231.05	8060.44	EXTRAPOLATION TO TD - 12286' MD, 590' FSL, 342' FEL SEC 35



## Survey Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well WHITETAIL 14-44-35HN
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4670.00usft
<b>Site:</b>	SEC 2-T5N-R62W	<b>MD Reference:</b>	KB 25' @ 4670.00usft
<b>Well:</b>	WHITETAIL 14-44-35HN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEY	<b>Database:</b>	EDT_32Bit_ODBC

<b>Project</b>	WELD COUNTY		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site		SEC 2-T5N-R62W			
Site Position:		Northing:	1,404,201.39 usft	Latitude:	40.436731°N
From:	Lat/Long	Easting:	3,334,009.19 usft	Longitude:	104.300043°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.78 °

Well	WHITETAIL 14-44-35HN					
Well Position	+N/-S	0.00 usft	Northing:	1,402,570.00 usft	Latitude:	40.432240°N
	+E/-W	0.00 usft	Easting:	3,334,366.19 usft	Longitude:	104.298840°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,645.00 usft

<b>Wellbore</b>	OWB				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	4/13/2022	7.52	66.71	51,932.25380580

<b>Design</b>	FINAL SURVEY				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	62.57	

<b>Survey Program</b>	<b>Date</b>	11/17/2022			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
211.00	1,594.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
1,671.00	12,286.00	FINAL SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
211.00	1.10	253.30	210.99	-0.58	-1.94	-1.99	0.52	0.52	0.00	
303.00	1.90	348.80	302.97	0.66	-3.08	-2.43	2.48	0.87	103.80	
376.00	4.50	342.20	375.85	4.57	-4.19	-1.61	3.59	3.56	-9.04	
463.00	5.80	342.70	462.49	12.02	-6.54	-0.27	1.50	1.49	0.57	
551.00	7.70	335.70	549.88	21.64	-10.29	0.83	2.35	2.16	-7.95	
638.00	10.20	331.10	635.82	33.70	-16.41	0.95	2.99	2.87	-5.29	
725.00	12.80	329.60	721.06	48.76	-25.02	0.25	3.01	2.99	-1.72	
812.00	14.90	330.80	805.53	66.84	-35.35	-0.59	2.44	2.41	1.38	
899.00	17.00	330.20	889.17	87.64	-47.13	-1.46	2.42	2.41	-0.69	

## Survey Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well WHITETAIL 14-44-35HN
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4670.00usft
<b>Site:</b>	SEC 2-T5N-R62W	<b>MD Reference:</b>	KB 25' @ 4670.00usft
<b>Well:</b>	WHITETAIL 14-44-35HN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEY	<b>Database:</b>	EDT_32Bit_ODBC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
987.00	19.90	329.80	972.64	111.75	-61.06	-2.72	3.30	3.30	-0.45
1,074.00	22.10	330.80	1,053.86	138.84	-76.49	-3.94	2.56	2.53	1.15
1,161.00	22.60	327.80	1,134.32	167.27	-93.39	-5.84	1.43	0.57	-3.45
1,248.00	23.80	327.10	1,214.29	196.16	-111.83	-8.91	1.42	1.38	-0.80
1,336.00	22.50	327.10	1,295.20	225.20	-130.62	-12.21	1.48	-1.48	0.00
1,423.00	24.00	327.30	1,375.13	254.07	-149.22	-15.42	1.73	1.72	0.23
1,510.00	25.80	328.90	1,454.04	285.17	-168.56	-18.26	2.21	2.07	1.84
1,594.00	26.90	330.40	1,529.32	317.35	-187.39	-20.15	1.53	1.31	1.79
1,671.00	27.33	331.47	1,597.85	348.03	-204.44	-21.15	0.84	0.56	1.39
1,860.00	25.83	329.66	1,766.88	421.68	-245.96	-24.08	0.90	-0.79	-0.96
1,954.00	25.25	329.26	1,851.69	456.59	-266.55	-26.28	0.64	-0.62	-0.43
2,049.00	24.33	328.03	1,937.94	490.61	-287.27	-29.00	1.11	-0.97	-1.29
2,145.00	23.66	327.85	2,025.64	523.69	-307.99	-32.15	0.70	-0.70	-0.19
2,240.00	23.13	327.51	2,112.83	555.57	-328.16	-35.37	0.58	-0.56	-0.36
2,334.00	22.09	325.79	2,199.60	585.76	-348.02	-39.09	1.31	-1.11	-1.83
2,428.00	23.85	332.87	2,286.16	617.30	-366.62	-41.08	3.48	1.87	7.53
2,523.00	23.10	332.50	2,373.30	650.92	-383.99	-41.00	0.80	-0.79	-0.39
2,618.00	22.16	331.80	2,460.99	683.24	-401.06	-41.27	1.03	-0.99	-0.74
2,713.00	24.18	331.12	2,548.32	716.07	-418.93	-42.00	2.14	2.13	-0.72
2,808.00	23.30	330.87	2,635.28	749.52	-437.47	-43.05	0.93	-0.93	-0.26
2,903.00	22.31	330.99	2,722.85	781.71	-455.36	-44.11	1.04	-1.04	0.13
2,997.00	25.74	328.62	2,808.70	814.75	-474.65	-46.01	3.79	3.65	-2.52
3,116.00	24.09	327.75	2,916.62	857.35	-501.06	-49.84	1.42	-1.39	-0.73
3,211.00	22.35	326.80	3,003.92	888.86	-521.30	-53.28	1.87	-1.83	-1.00
3,305.00	24.04	328.96	3,090.32	920.23	-540.96	-56.29	2.01	1.80	2.30
3,400.00	21.55	327.90	3,177.90	951.59	-560.21	-58.93	2.66	-2.62	-1.12
3,495.00	23.92	330.34	3,265.51	983.11	-579.02	-61.10	2.68	2.49	2.57
3,590.00	23.37	330.27	3,352.53	1,016.21	-597.89	-62.61	0.58	-0.58	-0.07
3,685.00	23.22	329.42	3,439.79	1,048.69	-616.77	-64.40	0.39	-0.16	-0.89
3,780.00	23.23	328.24	3,527.09	1,080.75	-636.15	-66.84	0.49	0.01	-1.24
3,875.00	23.64	328.83	3,614.26	1,112.97	-655.87	-69.50	0.50	0.43	0.62
3,970.00	22.59	327.67	3,701.63	1,144.69	-675.49	-72.30	1.20	-1.11	-1.22
4,064.00	21.91	327.59	3,788.63	1,174.75	-694.55	-75.37	0.72	-0.72	-0.09
4,158.00	23.27	331.92	3,875.42	1,205.94	-712.69	-77.11	2.28	1.45	4.61
4,253.00	21.69	331.71	3,963.20	1,237.96	-729.84	-77.58	1.67	-1.66	-0.22
4,348.00	24.26	331.93	4,050.66	1,270.65	-747.35	-78.07	2.71	2.71	0.23
4,443.00	22.87	331.96	4,137.73	1,304.16	-765.21	-78.48	1.46	-1.46	0.03
4,537.00	25.10	329.47	4,223.61	1,337.46	-783.93	-79.76	2.60	2.37	-2.65
4,631.00	22.77	328.81	4,309.52	1,370.20	-803.48	-82.03	2.49	-2.48	-0.70
4,726.00	24.58	329.69	4,396.52	1,402.99	-822.98	-84.23	1.94	1.91	0.93
4,821.00	22.69	328.50	4,483.55	1,435.67	-842.52	-86.53	2.05	-1.99	-1.25
4,915.00	26.12	328.99	4,569.14	1,468.88	-862.66	-89.11	3.66	3.65	0.52
5,008.00	23.00	326.45	4,653.72	1,501.57	-883.26	-92.33	3.54	-3.35	-2.73

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<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4670.00usft
<b>Site:</b>	SEC 2-T5N-R62W	<b>MD Reference:</b>	KB 25' @ 4670.00usft
<b>Well:</b>	WHITETAIL 14-44-35HN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEY	<b>Database:</b>	EDT_32Bit_ODBC

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,103.00	24.19	332.16	4,740.79	1,534.26	-902.61	-94.45	2.71	1.25	6.01	
5,198.00	21.94	327.35	4,828.19	1,566.42	-921.27	-96.21	3.09	-2.37	-5.06	
5,293.00	23.87	332.69	4,915.71	1,598.45	-939.67	-97.78	2.98	2.03	5.62	
5,388.00	24.11	330.34	5,002.50	1,632.39	-958.09	-98.50	1.04	0.25	-2.47	
5,483.00	21.57	328.80	5,090.05	1,664.19	-976.74	-100.40	2.75	-2.67	-1.62	
5,577.00	24.05	335.16	5,176.70	1,696.36	-993.75	-100.68	3.72	2.64	6.77	
5,672.00	24.37	334.40	5,263.35	1,731.61	-1,010.35	-99.18	0.47	0.34	-0.80	
5,767.00	24.41	331.47	5,349.87	1,766.53	-1,028.19	-98.93	1.27	0.04	-3.08	
5,862.00	21.23	330.94	5,437.43	1,798.82	-1,045.93	-99.80	3.35	-3.35	-0.56	
5,957.00	24.28	328.19	5,525.02	1,830.46	-1,064.58	-101.78	3.40	3.21	-2.89	
6,052.00	24.46	329.24	5,611.56	1,863.96	-1,084.94	-104.42	0.49	0.19	1.11	
6,116.00	22.48	341.20	5,670.30	1,886.95	-1,095.66	-103.35	8.04	-3.09	18.69	
KOP - 6116' MD, 5670' TVD										
6,147.00	21.88	347.61	5,699.01	1,898.20	-1,098.81	-100.97	8.04	-1.95	20.68	
6,242.00	26.88	16.61	5,785.81	1,936.23	-1,096.46	-81.36	13.50	5.26	30.53	
6,337.00	32.13	31.90	5,868.58	1,978.34	-1,076.93	-44.63	9.62	5.53	16.09	
6,431.00	34.28	51.52	5,947.46	2,016.15	-1,042.90	3.00	11.61	2.29	20.87	
6,526.00	35.86	60.78	6,025.27	2,046.41	-997.63	57.11	5.84	1.66	9.75	
6,620.00	44.21	62.83	6,097.18	2,074.86	-944.35	117.51	8.99	8.88	2.18	
6,715.00	52.38	66.28	6,160.34	2,105.18	-880.32	188.31	9.01	8.60	3.63	
6,810.00	60.14	71.00	6,213.08	2,133.78	-806.78	266.75	9.15	8.17	4.97	
6,904.00	68.61	78.73	6,253.75	2,155.67	-725.08	349.36	11.66	9.01	8.22	
6,998.00	75.57	87.07	6,282.68	2,166.58	-636.45	433.05	11.22	7.40	8.87	
7,093.00	84.30	87.24	6,299.27	2,171.22	-543.12	518.03	9.19	9.19	0.18	
7,115.69	85.53	87.48	6,301.28	2,172.26	-520.54	538.54	5.52	5.42	1.04	
~200' X-OVER PNT - 7115.69' MD, 540' FSL, 200' FEL SEC 34										
7,137.00	86.69	87.70	6,302.73	2,173.15	-499.30	557.81	5.52	5.42	1.03	
HZ LANDING PNT - 7137' MD, 6303' TVD										
7,188.00	89.45	88.22	6,304.45	2,174.97	-448.37	603.86	5.52	5.42	1.03	
7,283.00	89.25	88.23	6,305.53	2,177.91	-353.42	689.49	0.21	-0.21	0.01	
7,378.00	88.84	87.96	6,307.11	2,181.07	-258.48	775.21	0.52	-0.43	-0.28	
7,472.00	90.17	88.12	6,307.92	2,184.29	-164.54	860.07	1.43	1.41	0.17	
7,567.00	90.84	88.67	6,307.08	2,186.95	-69.59	945.58	0.91	0.71	0.58	
7,662.00	90.28	88.12	6,306.15	2,189.61	25.37	1,031.09	0.83	-0.59	-0.58	
7,757.00	89.60	87.44	6,306.25	2,193.29	120.30	1,117.04	1.01	-0.72	-0.72	
7,851.00	89.73	87.55	6,306.80	2,197.40	214.21	1,202.29	0.18	0.14	0.12	
7,945.00	88.85	85.93	6,307.97	2,202.74	308.04	1,288.04	1.96	-0.94	-1.72	
8,040.00	90.01	87.75	6,308.91	2,207.98	402.89	1,374.63	2.27	1.22	1.92	
8,135.00	90.69	87.42	6,308.33	2,211.98	497.80	1,460.72	0.80	0.72	-0.35	
8,229.00	89.95	86.31	6,307.81	2,217.12	591.66	1,546.40	1.42	-0.79	-1.18	
8,324.00	89.03	85.91	6,308.65	2,223.56	686.43	1,633.49	1.06	-0.97	-0.42	
8,418.00	90.39	86.79	6,309.13	2,229.55	780.24	1,719.51	1.72	1.45	0.94	
8,512.00	90.44	85.54	6,308.45	2,235.83	874.02	1,805.64	1.33	0.05	-1.33	
8,606.00	89.77	83.56	6,308.28	2,244.76	967.59	1,892.81	2.22	-0.71	-2.11	

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<b>Site:</b>	SEC 2-T5N-R62W	<b>MD Reference:</b>	KB 25' @ 4670.00usft
<b>Well:</b>	WHITETAIL 14-44-35HN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEY	<b>Database:</b>	EDT_32Bit_ODBC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,701.00	91.32	87.39	6,307.37	2,252.26	1,062.27	1,980.30	4.35	1.63	4.03
8,795.00	90.89	86.47	6,305.56	2,257.29	1,156.12	2,065.91	1.08	-0.46	-0.98
8,891.00	90.10	88.21	6,304.73	2,261.74	1,252.01	2,153.08	1.99	-0.82	1.81
8,985.00	90.45	89.35	6,304.28	2,263.75	1,345.98	2,237.41	1.27	0.37	1.21
9,080.00	90.32	89.36	6,303.64	2,264.81	1,440.98	2,322.22	0.14	-0.14	0.01
9,268.00	90.99	86.46	6,301.49	2,271.67	1,628.82	2,492.10	1.58	0.36	-1.54
9,363.00	90.91	86.72	6,299.92	2,277.32	1,723.64	2,578.87	0.29	-0.08	0.27
9,457.00	91.07	86.84	6,298.29	2,282.60	1,817.47	2,664.59	0.21	0.17	0.13
9,552.00	89.98	85.45	6,297.42	2,288.98	1,912.25	2,751.66	1.86	-1.15	-1.46
9,647.00	90.03	85.12	6,297.41	2,296.79	2,006.93	2,839.29	0.35	0.05	-0.35
9,742.00	91.06	88.24	6,296.51	2,302.29	2,101.75	2,925.99	3.46	1.08	3.28
9,837.00	91.17	88.20	6,294.66	2,305.25	2,196.69	3,011.61	0.12	0.12	-0.04
9,932.00	90.63	87.74	6,293.17	2,308.61	2,291.62	3,097.42	0.75	-0.57	-0.48
10,026.00	90.26	87.50	6,292.44	2,312.51	2,385.53	3,182.58	0.47	-0.39	-0.26
10,121.00	89.22	87.36	6,292.87	2,316.77	2,480.44	3,268.78	1.10	-1.09	-0.15
10,215.00	89.38	87.12	6,294.02	2,321.30	2,574.32	3,354.19	0.31	0.17	-0.26
10,310.00	91.04	87.93	6,293.67	2,325.40	2,669.23	3,440.32	1.94	1.75	0.85
10,405.00	91.20	87.57	6,291.81	2,329.13	2,764.13	3,526.28	0.41	0.17	-0.38
10,499.00	91.04	86.84	6,289.98	2,333.71	2,858.00	3,611.71	0.79	-0.17	-0.78
10,594.00	90.58	86.76	6,288.63	2,339.02	2,952.85	3,698.33	0.49	-0.48	-0.08
10,688.00	89.94	86.05	6,288.21	2,344.91	3,046.66	3,784.32	1.02	-0.68	-0.76
10,782.00	89.98	85.89	6,288.27	2,351.52	3,140.43	3,870.59	0.18	0.04	-0.17
10,877.00	89.87	85.29	6,288.40	2,358.82	3,235.14	3,958.02	0.64	-0.12	-0.63
10,972.00	89.95	87.73	6,288.55	2,364.60	3,329.96	4,044.85	2.57	0.08	2.57
11,066.00	89.65	87.02	6,288.87	2,368.91	3,423.86	4,130.17	0.82	-0.32	-0.76
11,161.00	90.18	88.99	6,289.01	2,372.21	3,518.80	4,215.96	2.15	0.56	2.07
11,255.00	89.75	88.29	6,289.07	2,374.45	3,612.77	4,300.40	0.87	-0.46	-0.74
11,349.00	91.12	88.51	6,288.36	2,377.07	3,706.73	4,385.01	1.48	1.46	0.23
11,444.00	90.85	88.32	6,286.73	2,379.70	3,801.68	4,470.50	0.35	-0.28	-0.20
11,539.00	90.27	87.68	6,285.80	2,383.01	3,896.62	4,556.29	0.91	-0.61	-0.67
11,633.00	89.48	87.40	6,286.00	2,387.05	3,990.53	4,641.50	0.89	-0.84	-0.30
11,727.00	90.95	87.83	6,285.65	2,390.96	4,084.44	4,726.66	1.63	1.56	0.46
11,822.00	90.58	87.68	6,284.38	2,394.68	4,179.36	4,812.63	0.42	-0.39	-0.16
11,917.00	90.99	88.87	6,283.08	2,397.54	4,274.31	4,898.22	1.32	0.43	1.25
12,012.00	90.36	88.47	6,281.96	2,399.74	4,369.27	4,983.53	0.79	-0.66	-0.42
12,106.00	90.14	88.36	6,281.55	2,402.34	4,463.24	5,068.13	0.26	-0.23	-0.12
12,201.00	89.19	87.49	6,282.11	2,405.78	4,558.17	5,153.97	1.36	-1.00	-0.92
LAST SURVEY - 12201' MD, 6282' TVD									
12,286.00	89.19	87.49	6,283.31	2,409.51	4,643.08	5,231.05	0.00	0.00	0.00
EXTRAPOLATION TO TD - 12286' MD, 590' FSL, 342' FEL SEC 35									

## Survey Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well WHITETAIL 14-44-35HN
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4670.00usft
<b>Site:</b>	SEC 2-T5N-R62W	<b>MD Reference:</b>	KB 25' @ 4670.00usft
<b>Well:</b>	WHITETAIL 14-44-35HN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEY	<b>Database:</b>	EDT_32Bit_ODBC

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL-WHITETAIL 14-44-35HN - actual wellpath misses target center by 22.81usft at 12286.00usft MD (6283.31 TVD, 2409.51 N, 4643.08 E) - Point	0.00	0.00	6,300.00	2,419.47	4,655.02	1,405,052.20	3,338,987.83	40.438880°N	104.282117°W
LP-WHITETAIL 14-44-35HN - actual wellpath misses target center by 9.02usft at 7115.64usft MD (6301.28 TVD, 2172.26 N, -520.59 E) - Point	0.00	0.00	6,305.00	2,164.04	-520.54	1,404,726.70	3,333,816.40	40.438180°N	104.300710°W

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
6,116.00	5,670.30	1,886.95	-1,095.66	KOP - 6116' MD, 5670' TVD	
7,115.69	6,301.28	2,172.26	-520.54	~200' X-OVER PNT - 7115.69' MD, 540' FSL, 200' FEL SEC 34	
7,137.00	6,302.73	2,173.15	-499.30	HZ LANDING PNT - 7137' MD, 6303' TVD	
12,201.00	6,282.11	2,405.78	4,558.17	LAST SURVEY - 12201' MD, 6282' TVD	
12,286.00	6,283.31	2,409.51	4,643.08	EXTRAPOLATION TO TD - 12286' MD, 590' FSL, 342' FEL SEC 35	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_