

BONANZA CREEK ENERGY

WELD COUNTY

SEC 2-T5N-R62W

STATE ANTELOPE U-A-3HN

OWB

Design: FINAL SURVEY

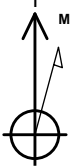
Standard Survey Report

14 November, 2022

Project: WELD COUNTY
Site: SEC 2-T5N-R62W
Well: STATE ANTELOPE U-A-3HN
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: 51932.2nT
Dip Angle: 66.71°
Date: 4/13/2022
Model: IGRF2020

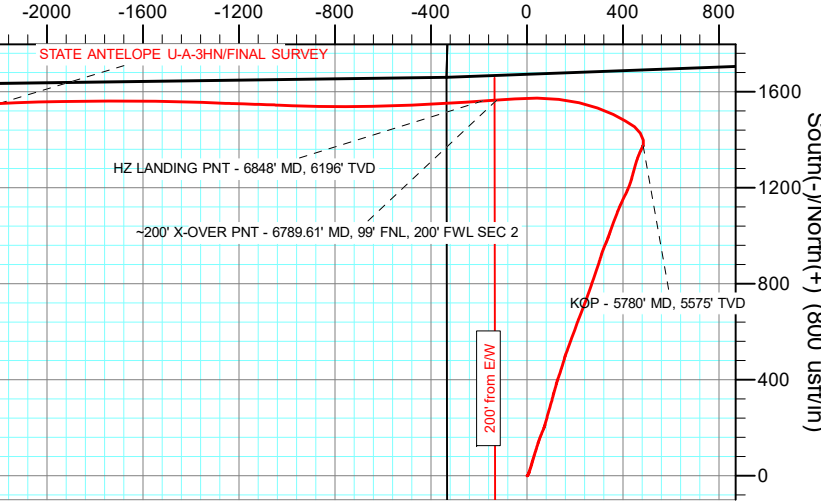
WELL DETAILS: STATE ANTELOPE U-A-3HN

+N/-S	+E/-W	Northing	Easting	4645.00	Latitude	Longitude	Slot
0.00	0.00	1402548.14	3334366.48		40.432180°N	104.298840°W	

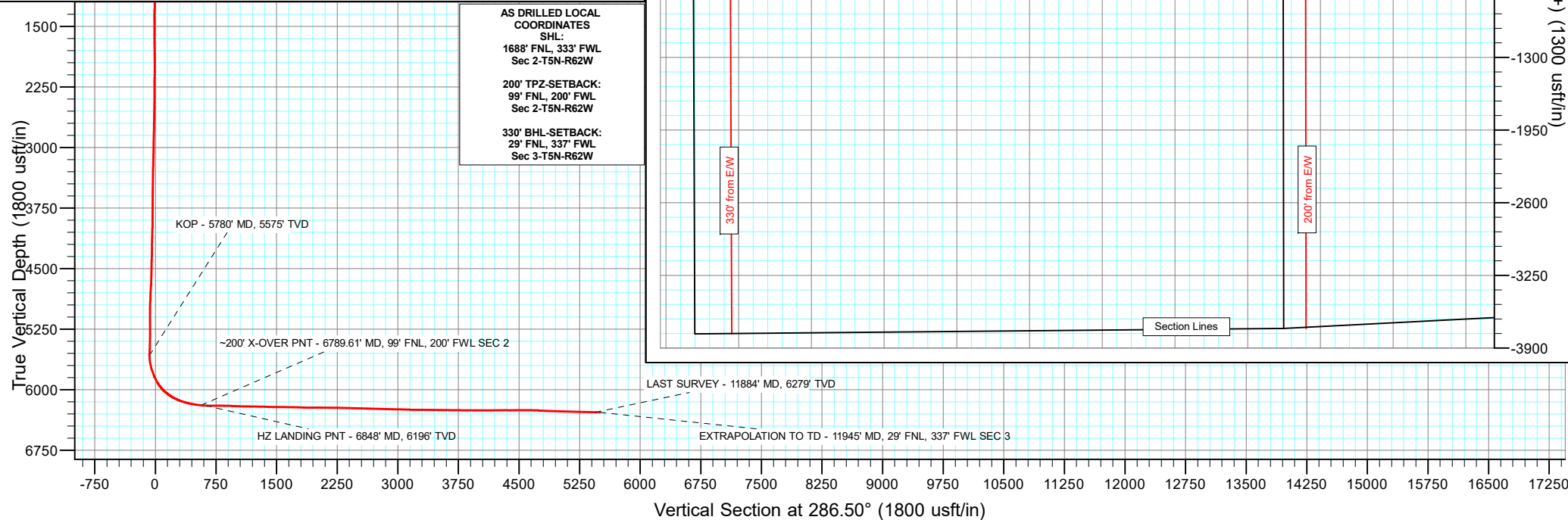
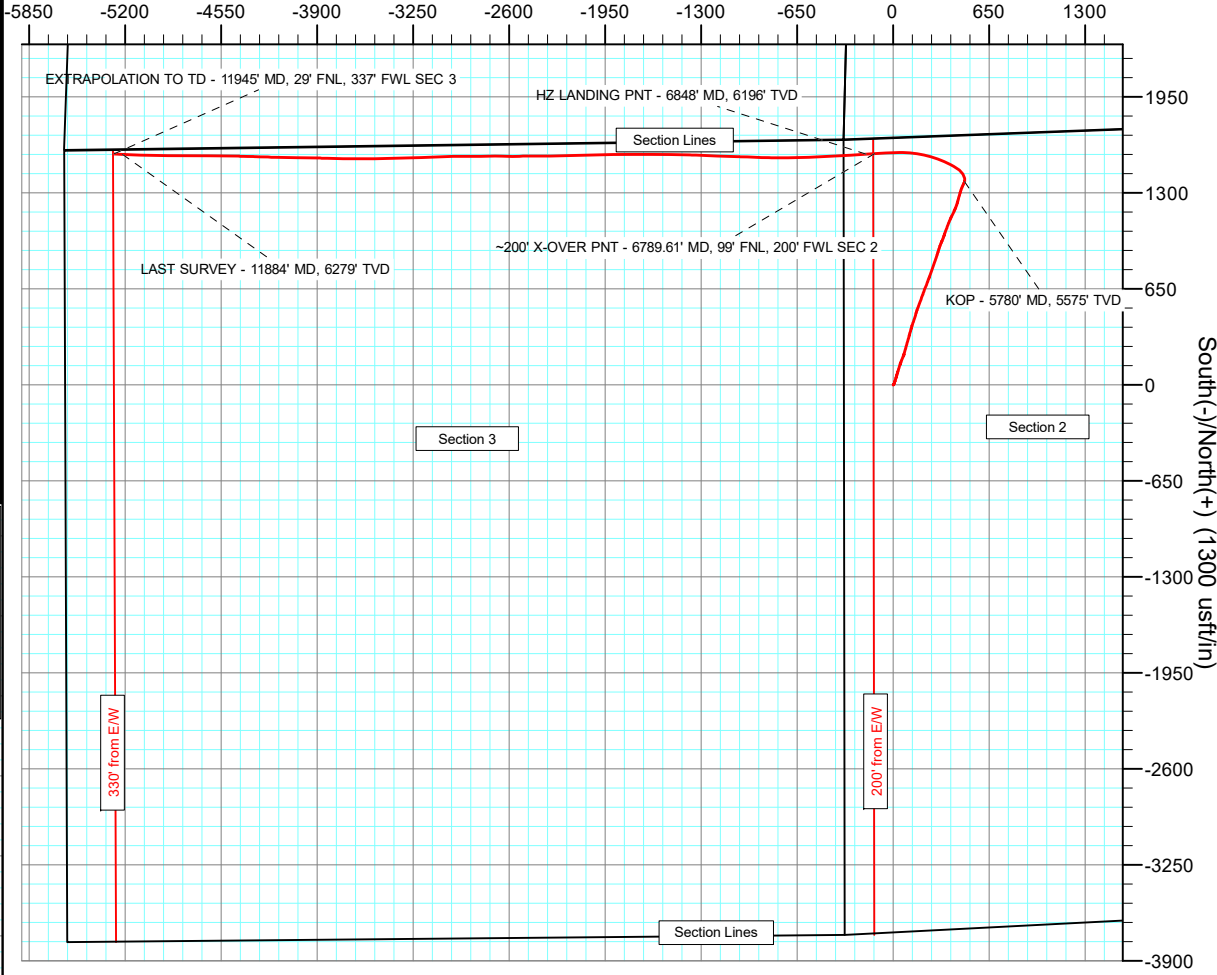
ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
5780.00	14.97	19.71	5574.68	1375.59	484.27	-73.69	1463.12	KOP - 5780' MD, 5575' TVD
6789.61	84.74	266.35	6192.25	1565.44	-125.27	564.68	2153.03	~200' X-OVER PNT - 6789.61' MD, 99' FNL, 200' FWL SEC 2
6848.00	87.60	266.33	6196.34	1561.66	-183.39	619.33	2211.27	HZ LANDING PNT - 6848' MD, 6196' TVD
11884.00	88.50	271.97	6279.22	1560.89	-5216.27	5444.78	7246.11	LAST SURVEY - 11884' MD, 6279' TVD
11945.00	88.50	271.97	6280.82	1562.99	-5277.22	5503.81	7307.09	EXTRAPOLATION TO TD - 11945' MD, 29' FNL, 337' FWL SEC 3

West(-)/East(+) (800 usft/in)



West(-)/East(+) (1300 usft/in)



Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE ANTELOPE U-A-3HN
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4670.00usft
Site:	SEC 2-T5N-R62W	MD Reference:	KB 25' @ 4670.00usft
Well:	STATE ANTELOPE U-A-3HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Project	WELD COUNTY		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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	STATE ANTELOPE U-A-3HN					
Well Position	+N/-S	0.00 usft	Northing:	1,402,548.14 usft	Latitude:	40.432180°N
	+E/-W	0.00 usft	Easting:	3,334,366.48 usft	Longitude:	104.298840°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,645.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/13/2022	7.52	66.71	51,932.22258129

Design	FINAL SURVEY				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	286.50	

Survey Program	Date	11/14/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
211.00	1,594.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
1,765.00	11,945.00	FINAL SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	

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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
211.00	0.50	132.80	211.00	-0.63	0.68	-0.83	0.24	0.24	0.00	
303.00	1.50	50.80	302.99	-0.14	1.90	-1.86	1.65	1.09	-89.13	
376.00	3.30	33.20	375.92	2.23	3.79	-3.01	2.64	2.47	-24.11	
463.00	5.18	23.70	462.68	7.92	6.74	-4.22	2.30	2.16	-10.92	
551.00	7.30	17.10	550.15	16.90	9.99	-4.78	2.54	2.41	-7.50	
639.00	9.90	18.90	637.16	29.40	14.08	-5.15	2.97	2.95	2.05	
725.00	12.10	16.00	721.57	45.06	18.96	-5.38	2.64	2.56	-3.37	
812.00	14.20	16.30	806.29	64.07	24.47	-5.27	2.42	2.41	0.34	
899.00	16.60	17.20	890.16	86.19	31.14	-5.38	2.77	2.76	1.03	

Survey Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4670.00usft
Site:	SEC 2-T5N-R62W	MD Reference:	KB 25' @ 4670.00usft
Well:	STATE ANTELOPE U-A-3HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	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	15.30	17.40	974.77	109.28	38.33	-5.72	1.48	-1.48	0.23
1,074.00	15.90	17.20	1,058.56	131.62	45.29	-6.05	0.69	0.69	-0.23
1,161.00	13.60	20.30	1,142.69	152.60	52.36	-6.87	2.79	-2.64	3.56
1,248.00	14.70	22.30	1,227.05	172.40	60.10	-8.66	1.38	1.26	2.30
1,336.00	15.50	22.60	1,312.01	193.59	68.85	-11.04	0.91	0.91	0.34
1,423.00	17.50	15.10	1,395.43	216.96	76.73	-11.96	3.35	2.30	-8.62
1,510.00	16.00	15.10	1,478.74	241.16	83.26	-11.35	1.72	-1.72	0.00
1,594.00	15.30	15.70	1,559.62	263.01	89.28	-10.91	0.86	-0.83	0.71
1,765.00	15.07	16.83	1,724.65	306.01	101.82	-10.73	0.22	-0.13	0.66
1,860.00	14.77	13.61	1,816.45	329.60	108.24	-10.19	0.93	-0.32	-3.39
1,954.00	16.43	16.90	1,906.99	353.96	114.93	-9.68	2.00	1.77	3.50
2,049.00	15.79	14.15	1,998.26	379.35	121.99	-9.24	1.05	-0.67	-2.89
2,145.00	17.71	19.66	2,090.19	405.77	130.10	-9.51	2.59	2.00	5.74
2,240.00	17.18	18.59	2,180.82	432.68	139.43	-10.82	0.65	-0.56	-1.13
2,334.00	16.74	16.93	2,270.73	458.79	147.80	-11.43	0.70	-0.47	-1.77
2,428.00	16.36	15.35	2,360.84	484.50	155.25	-11.27	0.63	-0.40	-1.68
2,523.00	18.02	20.64	2,451.59	511.16	163.97	-12.06	2.40	1.75	5.57
2,618.00	17.63	20.31	2,542.03	538.40	174.14	-14.08	0.42	-0.41	-0.35
2,713.00	17.13	20.11	2,632.70	565.03	183.95	-15.91	0.53	-0.53	-0.21
2,903.00	15.92	19.59	2,814.85	615.86	202.31	-19.08	0.64	-0.64	-0.27
2,997.00	15.20	20.37	2,905.40	639.56	210.92	-20.61	0.80	-0.77	0.83
3,116.00	15.85	21.39	3,020.06	669.32	222.28	-23.05	0.59	0.55	0.86
3,210.00	14.71	21.43	3,110.73	692.38	231.32	-25.17	1.21	-1.21	0.04
3,305.00	15.53	20.89	3,202.44	715.49	240.26	-27.18	0.88	0.86	-0.57
3,399.00	17.01	20.67	3,292.68	740.11	249.60	-29.15	1.58	1.57	-0.23
3,494.00	16.64	18.76	3,383.61	765.99	258.88	-30.69	0.70	-0.39	-2.01
3,589.00	16.95	18.68	3,474.56	791.99	267.69	-31.76	0.33	0.33	-0.08
3,684.00	17.63	19.35	3,565.27	818.68	276.89	-33.00	0.75	0.72	0.71
3,779.00	17.37	18.98	3,655.87	845.67	286.27	-34.33	0.30	-0.27	-0.39
3,874.00	16.60	18.48	3,746.72	871.95	295.18	-35.41	0.82	-0.81	-0.53
4,063.00	14.39	16.57	3,928.84	920.07	310.44	-36.38	1.20	-1.17	-1.01
4,158.00	15.13	20.99	4,020.71	942.96	318.25	-37.36	1.42	0.78	4.65
4,252.00	16.43	24.13	4,111.17	966.55	328.08	-40.09	1.65	1.38	3.34
4,347.00	18.22	20.30	4,201.86	992.74	338.73	-42.86	2.23	1.88	-4.03
4,442.00	15.86	17.80	4,292.68	1,019.03	347.85	-44.14	2.60	-2.48	-2.63
4,536.00	16.00	21.09	4,383.07	1,043.35	356.44	-45.47	0.97	0.15	3.50
4,726.00	16.74	20.56	4,565.37	1,093.40	375.47	-49.50	0.40	0.39	-0.28
4,820.00	17.19	23.42	4,655.28	1,118.82	385.74	-52.14	1.01	0.48	3.04
4,914.00	18.76	26.23	4,744.69	1,145.13	397.95	-56.36	1.91	1.67	2.99
5,008.00	16.10	26.16	4,834.37	1,170.39	410.38	-61.11	2.83	-2.83	-0.07
5,102.00	14.90	22.35	4,924.95	1,193.27	420.72	-64.53	1.67	-1.28	-4.05
5,197.00	15.80	19.85	5,016.56	1,216.73	429.75	-66.53	1.18	0.95	-2.63
5,292.00	16.90	14.60	5,107.72	1,242.26	437.63	-66.83	1.94	1.16	-5.53

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE ANTELOPE U-A-3HN
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4670.00usft
Site:	SEC 2-T5N-R62W	MD Reference:	KB 25' @ 4670.00usft
Well:	STATE ANTELOPE U-A-3HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	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)	
5,387.00	18.12	15.69	5,198.32	1,269.85	445.10	-66.16	1.33	1.28	1.15	
5,482.00	17.06	15.81	5,288.88	1,297.48	452.90	-65.79	1.12	-1.12	0.13	
5,672.00	16.73	24.67	5,470.71	1,349.15	471.91	-69.34	1.36	-0.17	4.66	
5,766.00	14.87	26.15	5,561.15	1,372.28	482.87	-73.29	2.02	-1.98	1.57	
5,780.00	14.97	19.71	5,574.68	1,375.59	484.27	-73.69	11.86	0.70	-46.00	
KOP - 5780' MD, 5575' TVD										
5,861.00	18.62	348.43	5,652.37	1,398.16	485.21	-68.18	11.86	4.51	-38.62	
5,956.00	21.09	326.48	5,741.84	1,427.31	472.71	-47.91	8.21	2.60	-23.11	
6,051.00	24.04	308.54	5,829.66	1,453.66	448.10	-16.84	7.85	3.11	-18.88	
6,146.00	32.08	299.60	5,913.46	1,478.23	410.95	25.76	9.53	8.46	-9.41	
6,241.00	43.03	295.71	5,988.67	1,504.83	359.65	82.51	11.79	11.53	-4.09	
6,336.00	52.51	290.86	6,052.47	1,532.39	295.06	152.26	10.67	9.98	-5.11	
6,431.00	62.35	281.53	6,103.63	1,554.31	218.30	232.08	13.24	10.36	-9.82	
6,525.00	71.23	277.12	6,140.65	1,568.18	133.15	317.67	10.38	9.45	-4.69	
6,619.00	76.66	269.22	6,166.68	1,573.08	43.06	405.44	9.93	5.78	-8.40	
6,714.00	82.50	266.88	6,183.85	1,569.88	-50.27	494.02	6.61	6.15	-2.46	
6,789.61	84.74	266.35	6,192.25	1,565.45	-125.27	564.68	3.05	2.97	-0.71	
~200' X-OVER PNT - 6789.61' MD, 99' FNL, 200' FWL SEC 2										
6,809.00	85.32	266.21	6,193.93	1,564.19	-144.55	582.80	3.05	2.97	-0.70	
6,848.00	87.60	266.33	6,196.34	1,561.66	-183.39	619.33	5.86	5.85	0.32	
HZ LANDING PNT - 6848' MD, 6196' TVD										
6,903.00	90.82	266.51	6,197.10	1,558.23	-238.27	670.97	5.86	5.85	0.32	
6,998.00	88.88	266.73	6,197.35	1,552.63	-333.10	760.31	2.06	-2.04	0.23	
7,092.00	89.60	266.51	6,198.59	1,547.09	-426.93	848.70	0.80	0.77	-0.23	
7,187.00	87.52	268.66	6,200.98	1,543.08	-521.80	938.53	3.15	-2.19	2.26	
7,282.00	88.35	268.06	6,204.40	1,540.37	-616.70	1,028.75	1.08	0.87	-0.63	
7,377.00	88.81	267.99	6,206.76	1,537.09	-711.62	1,118.83	0.49	0.48	-0.07	
7,472.00	89.43	271.78	6,208.22	1,536.90	-806.59	1,209.83	4.04	0.65	3.99	
7,661.00	88.34	271.92	6,211.89	1,543.00	-995.45	1,392.65	0.58	-0.58	0.07	
7,756.00	89.95	272.17	6,213.31	1,546.39	-1,090.37	1,484.63	1.72	1.69	0.26	
7,850.00	89.09	271.56	6,214.10	1,549.45	-1,184.32	1,575.58	1.12	-0.91	-0.65	
7,945.00	88.38	272.45	6,216.20	1,552.78	-1,279.24	1,667.53	1.20	-0.75	0.94	
8,039.00	89.19	271.95	6,218.19	1,556.38	-1,373.15	1,758.60	1.01	0.86	-0.53	
8,134.00	88.55	271.00	6,220.06	1,558.83	-1,468.09	1,850.33	1.21	-0.67	-1.00	
8,229.00	89.75	270.85	6,221.47	1,560.36	-1,563.07	1,941.83	1.27	1.26	-0.16	
8,324.00	90.70	270.11	6,221.10	1,561.16	-1,658.06	2,033.14	1.27	1.00	-0.78	
8,418.00	88.94	269.48	6,221.39	1,560.82	-1,752.06	2,123.17	1.99	-1.87	-0.67	
8,511.00	89.52	269.40	6,222.64	1,559.91	-1,845.05	2,212.07	0.63	0.62	-0.09	
8,606.00	88.08	269.20	6,224.63	1,558.75	-1,940.02	2,302.80	1.53	-1.52	-0.21	
8,701.00	88.81	268.53	6,227.21	1,556.87	-2,034.96	2,393.30	1.04	0.77	-0.71	
8,795.00	88.45	268.31	6,229.46	1,554.28	-2,128.90	2,482.64	0.45	-0.38	-0.23	
8,890.00	88.45	267.92	6,232.03	1,551.16	-2,223.81	2,572.76	0.41	0.00	-0.41	
8,985.00	88.26	270.03	6,234.76	1,549.46	-2,318.75	2,663.31	2.23	-0.20	2.22	
9,079.00	89.11	269.70	6,236.91	1,549.24	-2,412.73	2,753.35	0.97	0.90	-0.35	

Survey Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4670.00usft
Site:	SEC 2-T5N-R62W	MD Reference:	KB 25' @ 4670.00usft
Well:	STATE ANTELOPE U-A-3HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	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)	
9,173.00	88.63	269.49	6,238.77	1,548.57	-2,506.70	2,843.27	0.56	-0.51	-0.22	
9,267.00	88.66	270.05	6,240.99	1,548.19	-2,600.68	2,933.27	0.60	0.03	0.60	
9,362.00	88.34	270.39	6,243.48	1,548.56	-2,695.64	3,024.43	0.49	-0.34	0.36	
9,457.00	88.34	268.95	6,246.23	1,548.01	-2,790.60	3,115.32	1.52	0.00	-1.52	
9,552.00	89.56	271.00	6,247.97	1,547.97	-2,885.58	3,206.37	2.51	1.28	2.16	
9,646.00	89.67	268.89	6,248.60	1,547.88	-2,979.57	3,296.47	2.25	0.12	-2.24	
9,741.00	89.47	267.73	6,249.31	1,545.08	-3,074.52	3,386.72	1.24	-0.21	-1.22	
9,836.00	89.45	266.96	6,250.21	1,540.68	-3,169.42	3,476.46	0.81	-0.02	-0.81	
9,931.00	89.04	266.98	6,251.46	1,535.66	-3,264.28	3,565.98	0.43	-0.43	0.02	
10,026.00	89.23	269.69	6,252.90	1,532.90	-3,359.22	3,656.23	2.86	0.20	2.85	
10,120.00	89.45	269.75	6,253.98	1,532.44	-3,453.21	3,746.22	0.24	0.23	0.06	
10,214.00	89.03	267.47	6,255.23	1,530.16	-3,547.17	3,835.67	2.47	-0.45	-2.43	
10,309.00	89.91	271.70	6,256.11	1,529.47	-3,642.14	3,926.53	4.55	0.93	4.45	
10,404.00	89.82	271.60	6,256.33	1,532.21	-3,737.10	4,018.36	0.14	-0.09	-0.11	
10,498.00	90.41	271.20	6,256.14	1,534.50	-3,831.07	4,109.11	0.76	0.63	-0.43	
10,593.00	91.07	270.56	6,254.91	1,535.96	-3,926.05	4,200.60	0.97	0.69	-0.67	
10,687.00	89.88	271.67	6,254.13	1,537.79	-4,020.02	4,291.22	1.73	-1.27	1.18	
10,781.00	89.68	270.93	6,254.50	1,539.92	-4,114.00	4,381.93	0.82	-0.21	-0.79	
10,876.00	90.57	271.22	6,254.29	1,541.71	-4,208.98	4,473.51	0.99	0.94	0.31	
10,971.00	89.69	272.32	6,254.07	1,544.64	-4,303.93	4,565.39	1.48	-0.93	1.16	
11,066.00	89.93	271.39	6,254.39	1,547.72	-4,398.88	4,657.30	1.01	0.25	-0.98	
11,160.00	87.16	271.03	6,256.77	1,549.70	-4,492.82	4,747.94	2.97	-2.95	-0.38	
11,255.00	87.27	270.62	6,261.39	1,551.07	-4,587.70	4,839.30	0.45	0.12	-0.43	
11,349.00	87.78	270.33	6,265.45	1,551.84	-4,681.61	4,929.56	0.62	0.54	-0.31	
11,444.00	88.42	269.87	6,268.60	1,552.01	-4,776.55	5,020.64	0.83	0.67	-0.48	
11,538.00	89.07	269.61	6,270.66	1,551.58	-4,870.53	5,110.63	0.74	0.69	-0.28	
11,633.00	88.06	271.83	6,273.04	1,552.78	-4,965.49	5,202.01	2.57	-1.06	2.34	
11,727.00	88.63	271.47	6,275.75	1,555.48	-5,059.41	5,292.84	0.72	0.61	-0.38	
11,821.00	88.89	272.28	6,277.79	1,558.56	-5,153.33	5,383.77	0.90	0.28	0.86	
11,884.00	88.50	271.97	6,279.22	1,560.89	-5,216.27	5,444.78	0.79	-0.62	-0.49	
LAST SURVEY - 11884' MD, 6279' TVD										
11,945.00	88.50	271.97	6,280.82	1,562.99	-5,277.22	5,503.81	0.00	0.00	0.00	
EXTRAPOLATION TO TD - 11945' MD, 29' FNL, 337' FWL SEC 3										

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE ANTELOPE U-A-3HN
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4670.00usft
Site:	SEC 2-T5N-R62W	MD Reference:	KB 25' @ 4670.00usft
Well:	STATE ANTELOPE U-A-3HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
LP-STATE ANTELOPE /	0.00	0.00	6,205.00	1,548.34	-125.27	1,404,094.59	3,334,220.26	40.436430°N	104.299290°W
- actual wellpath misses target center by 21.21usft at 6791.81usft MD (6192.45 TVD, 1565.30 N, -127.46 E)									
- Point									
PBHL-STATE ANTELOP	0.00	0.00	6,275.00	1,581.67	-5,284.29	1,404,058.03	3,329,061.45	40.436520°N	104.317823°W
- actual wellpath misses target center by 20.80usft at 11945.00usft MD (6280.82 TVD, 1562.99 N, -5277.22 E)									
- Point									

Design Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
5,780.00	5,574.68	1,375.59	484.27	KOP - 5780' MD, 5575' TVD	
6,789.61	6,192.25	1,565.45	-125.27	~200' X-OVER PNT - 6789.61' MD, 99' FNL, 200' FWL SEC 2	
6,848.00	6,196.34	1,561.66	-183.39	HZ LANDING PNT - 6848' MD, 6196' TVD	
11,884.00	6,279.22	1,560.89	-5,216.27	LAST SURVEY - 11884' MD, 6279' TVD	
11,945.00	6,280.82	1,562.99	-5,277.22	EXTRAPOLATION TO TD - 11945' MD, 29' FNL, 337' FWL SEC 3	

Checked By: _____	Approved By: _____	Date: _____
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