

BONANZA CREEK ENERGY

WELD COUNTY

SEC 2-T5N-R62W

STATE ANTELOPE 44-14-3HN

OWB

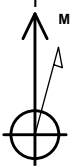
Design: FINAL SURVEY

Standard Survey Report

03 November, 2022

Project: WELD COUNTY
Site: SEC 2-T5N-R62W
Well: STATE ANTELOPE 44-14-3HN
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: 51932.0nT
Dip Angle: 66.71°
Date: 4/13/2022
Model: IGRF2020

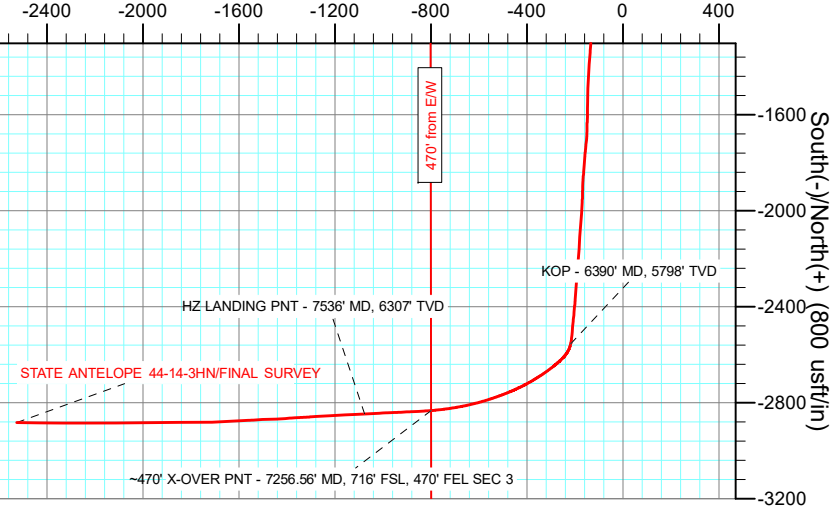
WELL DETAILS: STATE ANTELOPE 44-14-3HN

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1402369.65	3334368.89	40.431690°N	104.298840°W	

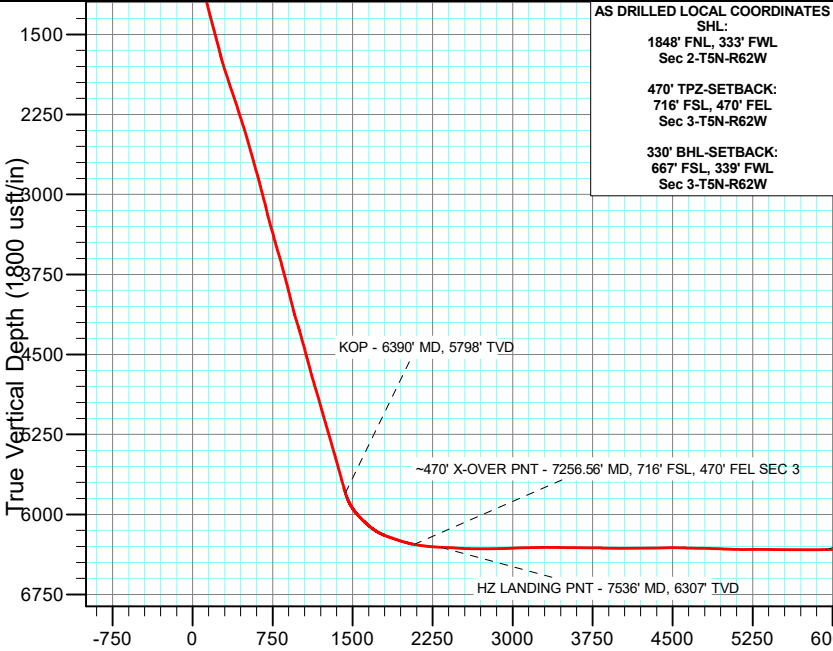
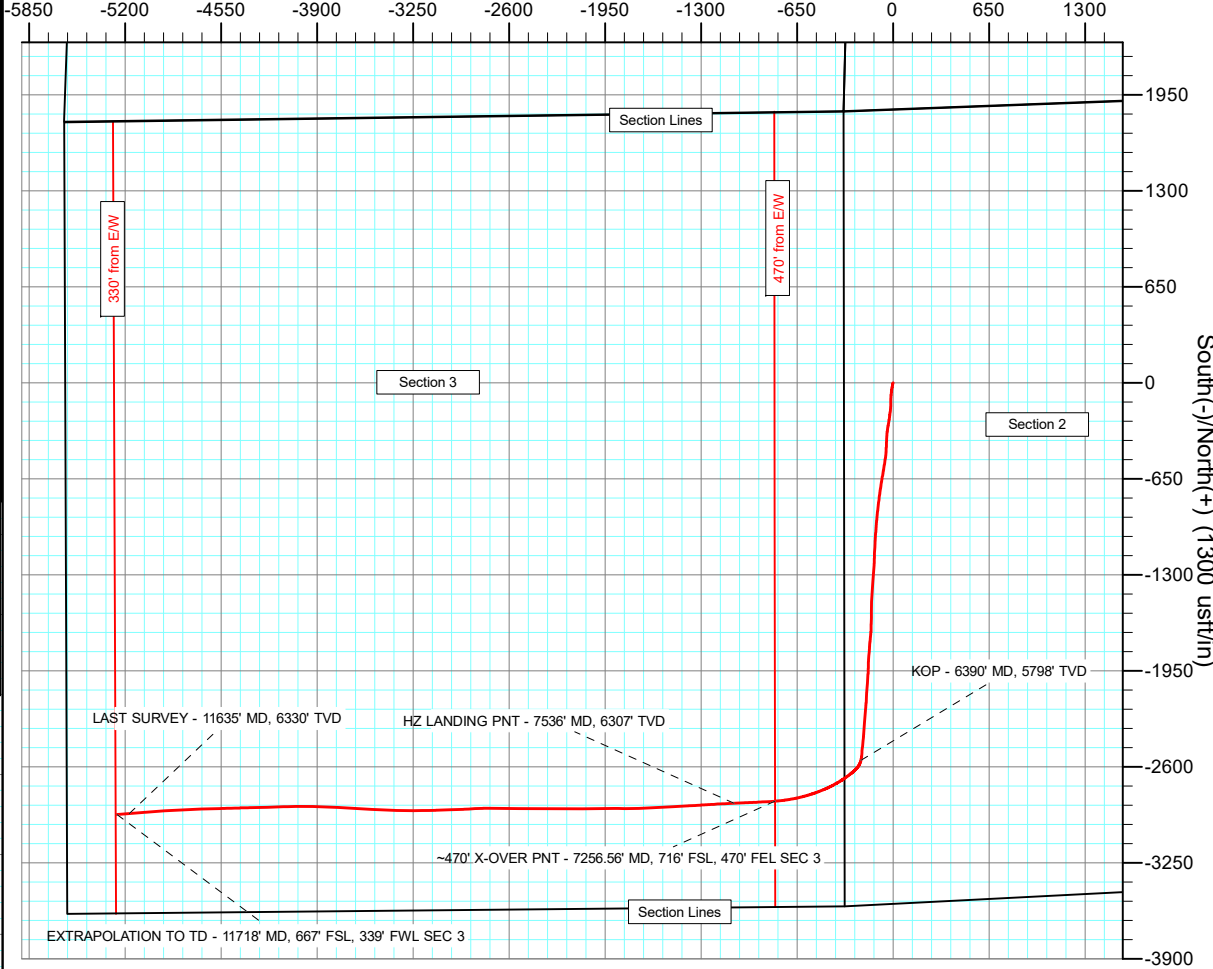
ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
6390.00	25.57	193.36	5797.56	-2554.57	-217.35	1432.06	2566.75	KOP - 6390' MD, 5798' TVD
7256.56	80.39	265.31	6280.67	-2832.55	-799.07	2075.55	3238.33	~470' X-OVER PNT - 7256.56' MD, 716' FSL, 470' FEL SEC 3
7536.00	87.51	267.21	6307.13	-2846.47	-1076.71	2324.93	3516.14	HZ LANDING PNT - 7536' MD, 6307' TVD
11635.00	91.26	265.16	6329.57	-2916.62	-5171.37	5937.05	7614.21	LAST SURVEY - 11635' MD, 6330' TVD
11718.00	91.26	265.16	6327.75	-2923.62	-5254.06	6012.71	7697.19	EXTRAPOLATION TO TD - 11718' MD, 667' FSL, 339' FWL SEC 3

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



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



Vertical Section at 240.91° (1800 usft/in)

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE ANTELOPE 44-14-3HN
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4672.00usft
Site:	SEC 2-T5N-R62W	MD Reference:	KB 25' @ 4672.00usft
Well:	STATE ANTELOPE 44-14-3HN	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 44-14-3HN				
Well Position	+N/-S	0.00 usft	Northing:	1,402,369.65 usft	Latitude:	40.431690°N
	+E/-W	0.00 usft	Easting:	3,334,368.90 usft	Longitude:	104.298840°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,647.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/13/2022	7.52	66.71	51,931.95154807

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	240.91	

Survey Program	Date	11/3/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
210.00	1,602.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
1,674.00	11,718.00	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	
210.00	1.80	199.30	209.97	-3.11	-1.09	2.47	0.86	0.86	0.00	
302.00	3.80	197.20	301.85	-7.39	-2.47	5.75	2.18	2.17	-2.28	
376.00	4.90	184.70	375.64	-12.88	-3.45	9.28	1.95	1.49	-16.89	
463.00	6.90	194.30	462.18	-21.65	-5.05	14.94	2.56	2.30	11.03	
550.00	9.60	189.70	548.27	-33.87	-7.56	23.08	3.19	3.10	-5.29	
637.00	11.20	185.90	633.84	-49.42	-9.65	32.47	2.00	1.84	-4.37	
725.00	14.30	188.30	719.66	-68.68	-12.10	43.97	3.57	3.52	2.73	
812.00	16.10	183.20	803.61	-91.36	-14.33	56.94	2.58	2.07	-5.86	
899.00	18.20	181.30	886.74	-116.99	-15.31	70.26	2.50	2.41	-2.18	

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE ANTELOPE 44-14-3HN
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4672.00usft
Site:	SEC 2-T5N-R62W	MD Reference:	KB 25' @ 4672.00usft
Well:	STATE ANTELOPE 44-14-3HN	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)
986.00	19.50	180.20	969.07	-145.10	-15.67	84.24	1.55	1.49	-1.26
1,074.00	19.46	185.81	1,052.04	-174.37	-17.20	99.82	2.13	-0.05	6.37
1,161.00	20.30	187.30	1,133.86	-203.76	-20.59	117.07	1.13	0.97	1.71
1,248.00	23.10	187.70	1,214.69	-235.65	-24.79	136.25	3.22	3.22	0.46
1,335.00	21.70	189.85	1,295.12	-268.41	-29.83	156.58	1.86	-1.61	2.47
1,423.00	23.60	190.00	1,376.33	-301.79	-35.67	177.91	2.16	2.16	0.17
1,510.00	25.00	185.50	1,455.63	-337.24	-40.46	199.34	2.67	1.61	-5.17
1,602.00	26.30	183.60	1,538.56	-376.94	-43.60	221.38	1.67	1.41	-2.07
1,674.00	27.22	182.20	1,602.85	-409.31	-45.24	238.55	1.55	1.28	-1.94
1,769.00	25.63	181.32	1,687.92	-451.57	-46.54	260.24	1.72	-1.67	-0.93
1,863.00	26.69	187.72	1,772.31	-492.82	-49.85	283.19	3.20	1.13	6.81
1,957.00	28.29	189.48	1,855.69	-535.72	-56.35	309.73	1.91	1.70	1.87
2,052.00	27.34	188.43	1,939.72	-579.50	-63.26	337.05	1.13	-1.00	-1.11
2,147.00	29.14	190.13	2,023.41	-623.85	-70.53	364.97	2.08	1.89	1.79
2,242.00	28.46	189.27	2,106.66	-668.96	-78.24	393.65	0.84	-0.72	-0.91
2,337.00	27.18	188.42	2,190.67	-712.77	-85.07	420.91	1.41	-1.35	-0.89
2,432.00	28.99	187.65	2,274.48	-757.05	-91.31	447.90	1.94	1.91	-0.81
2,526.00	28.07	187.08	2,357.07	-801.58	-97.07	474.58	1.02	-0.98	-0.61
2,620.00	26.98	186.48	2,440.43	-844.71	-102.20	500.04	1.20	-1.16	-0.64
2,714.00	25.79	186.22	2,524.63	-886.23	-106.82	524.26	1.27	-1.27	-0.28
2,809.00	27.41	185.11	2,609.58	-928.56	-111.01	548.50	1.78	1.71	-1.17
2,903.00	26.46	184.30	2,693.38	-970.99	-114.51	572.19	1.08	-1.01	-0.86
2,998.00	27.86	184.46	2,777.90	-1,014.23	-117.82	596.11	1.48	1.47	0.17
3,119.00	25.66	183.29	2,865.94	-1,068.58	-121.52	625.77	1.87	-1.82	-0.97
3,214.00	26.52	182.58	2,971.26	-1,110.30	-123.66	647.93	0.96	0.91	-0.75
3,309.00	27.06	182.50	3,056.06	-1,153.08	-125.55	670.38	0.57	0.57	-0.08
3,404.00	24.81	181.02	3,141.49	-1,194.60	-126.85	691.71	2.46	-2.37	-1.56
3,498.00	25.50	184.31	3,226.58	-1,234.50	-128.72	712.74	1.66	0.73	3.50
3,593.00	26.97	184.31	3,311.79	-1,276.37	-131.88	735.86	1.55	1.55	0.00
3,687.00	27.06	184.42	3,395.53	-1,318.95	-135.13	759.40	0.11	0.10	0.12
3,781.00	27.57	184.14	3,479.05	-1,361.96	-138.35	783.13	0.56	0.54	-0.30
3,877.00	28.19	183.64	3,563.91	-1,406.75	-141.39	807.57	0.69	0.65	-0.52
3,971.00	28.12	182.84	3,646.78	-1,451.03	-143.90	831.29	0.41	-0.07	-0.85
4,066.00	27.09	182.01	3,730.97	-1,495.01	-145.77	854.31	1.16	-1.08	-0.87
4,160.00	28.45	181.09	3,814.14	-1,538.79	-146.94	876.62	1.52	1.45	-0.98
4,255.00	26.62	179.67	3,898.38	-1,582.70	-147.25	898.24	2.05	-1.93	-1.49
4,350.00	26.17	183.51	3,983.48	-1,624.90	-148.41	919.77	1.86	-0.47	4.04
4,444.00	26.20	179.64	4,067.84	-1,666.34	-149.55	940.92	1.82	0.03	-4.12
4,537.00	27.60	186.60	4,150.80	-1,708.28	-151.90	963.37	3.70	1.51	7.48
4,632.00	29.05	185.32	4,234.42	-1,753.11	-156.57	989.24	1.65	1.53	-1.35
4,727.00	26.60	183.81	4,318.43	-1,797.31	-160.12	1,013.84	2.68	-2.58	-1.59
4,821.00	26.14	185.11	4,402.65	-1,838.93	-163.36	1,036.91	0.79	-0.49	1.38
4,916.00	26.38	183.64	4,487.85	-1,880.84	-166.56	1,060.09	0.73	0.25	-1.55

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE ANTELOPE 44-14-3HN
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4672.00usft
Site:	SEC 2-T5N-R62W	MD Reference:	KB 25' @ 4672.00usft
Well:	STATE ANTELOPE 44-14-3HN	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)	
5,012.00	28.55	180.64	4,573.02	-1,925.07	-168.17	1,083.00	2.68	2.26	-3.12	
5,106.00	26.97	182.87	4,656.21	-1,968.82	-169.49	1,105.43	2.01	-1.68	2.37	
5,201.00	27.78	184.41	4,740.57	-2,012.41	-172.27	1,129.05	1.13	0.85	1.62	
5,296.00	28.62	185.05	4,824.29	-2,057.15	-175.98	1,154.04	0.94	0.88	0.67	
5,391.00	28.40	183.05	4,907.77	-2,102.38	-179.18	1,178.83	1.03	-0.23	-2.11	
5,486.00	27.99	182.84	4,991.50	-2,147.20	-181.49	1,202.65	0.44	-0.43	-0.22	
5,581.00	26.68	185.59	5,075.89	-2,190.70	-184.67	1,226.58	1.91	-1.38	2.89	
5,675.00	27.36	184.79	5,159.63	-2,233.22	-188.53	1,250.63	0.82	0.72	-0.85	
5,771.00	28.14	183.82	5,244.59	-2,277.80	-191.88	1,275.23	0.94	0.81	-1.01	
5,866.00	27.62	184.09	5,328.56	-2,322.11	-194.95	1,299.45	0.56	-0.55	0.28	
5,960.00	27.89	184.55	5,411.75	-2,365.76	-198.24	1,323.56	0.37	0.29	0.49	
6,055.00	25.90	185.47	5,496.47	-2,408.57	-201.99	1,347.64	2.14	-2.09	0.97	
6,149.00	25.69	185.76	5,581.10	-2,449.28	-205.99	1,370.93	0.26	-0.22	0.31	
6,244.00	26.38	185.06	5,666.46	-2,490.79	-209.91	1,394.55	0.80	0.73	-0.74	
6,339.00	26.16	185.40	5,751.65	-2,532.66	-213.75	1,418.26	0.28	-0.23	0.36	
6,390.00	25.57	193.36	5,797.56	-2,554.57	-217.35	1,432.06	6.90	-1.17	15.61	
KOP - 6390' MD, 5798' TVD										
6,433.00	25.41	200.25	5,836.38	-2,572.26	-222.69	1,445.32	6.90	-0.36	16.02	
6,527.00	32.16	222.77	5,918.96	-2,609.69	-246.75	1,484.56	13.48	7.18	23.96	
6,622.00	41.73	231.68	5,994.85	-2,647.97	-288.86	1,539.96	11.52	10.07	9.38	
6,717.00	45.81	236.58	6,063.46	-2,686.37	-342.13	1,605.18	5.58	4.29	5.16	
6,812.00	52.09	241.93	6,125.84	-2,722.81	-403.71	1,676.71	7.85	6.61	5.63	
6,907.00	63.84	247.75	6,176.18	-2,756.73	-476.54	1,756.84	13.41	12.37	6.13	
7,001.00	71.24	252.23	6,212.08	-2,786.34	-558.11	1,842.52	9.02	7.87	4.77	
7,096.00	72.40	257.62	6,241.74	-2,809.79	-645.23	1,930.05	5.53	1.22	5.67	
7,191.00	76.26	262.34	6,267.40	-2,825.66	-735.26	2,016.44	6.28	4.06	4.97	
7,256.56	80.39	265.31	6,280.67	-2,832.55	-799.07	2,075.55	7.71	6.31	4.53	
~470' X-OVER PNT - 7256.56' MD, 716' FSL, 470' FEL SEC 3										
7,286.00	82.26	266.62	6,285.11	-2,834.60	-828.10	2,101.91	7.71	6.34	4.45	
7,380.00	83.61	267.59	6,296.67	-2,839.31	-921.27	2,185.61	1.76	1.44	1.03	
7,474.00	87.15	267.28	6,304.24	-2,843.50	-1,014.85	2,269.42	3.78	3.77	-0.33	
7,536.00	87.51	267.21	6,307.13	-2,846.47	-1,076.71	2,324.93	0.59	0.58	-0.11	
HZ LANDING PNT - 7536' MD, 6307' TVD										
7,569.00	87.70	267.18	6,308.51	-2,848.09	-1,109.64	2,354.49	0.59	0.58	-0.11	
7,664.00	87.24	266.82	6,312.70	-2,853.05	-1,204.42	2,439.72	0.61	-0.48	-0.38	
7,758.00	86.41	266.29	6,317.91	-2,858.69	-1,298.11	2,524.33	1.05	-0.88	-0.56	
7,853.00	89.80	266.97	6,321.05	-2,864.27	-1,392.88	2,609.85	3.64	3.57	0.72	
7,947.00	89.55	266.88	6,321.58	-2,869.32	-1,486.74	2,694.32	0.28	-0.27	-0.10	
8,041.00	90.81	267.26	6,321.29	-2,874.12	-1,580.61	2,778.69	1.40	1.34	0.40	
8,135.00	90.71	266.48	6,320.04	-2,879.25	-1,674.46	2,863.20	0.84	-0.11	-0.83	
8,230.00	91.83	270.24	6,317.93	-2,881.97	-1,769.38	2,947.46	4.13	1.18	3.96	
8,324.00	91.93	269.86	6,314.85	-2,881.89	-1,863.33	3,029.52	0.42	0.11	-0.40	
8,419.00	91.88	269.11	6,311.69	-2,882.74	-1,958.28	3,112.89	0.79	-0.05	-0.79	
8,514.00	90.39	269.97	6,309.81	-2,883.50	-2,053.25	3,196.26	1.81	-1.57	0.91	

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE ANTELOPE 44-14-3HN
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4672.00usft
Site:	SEC 2-T5N-R62W	MD Reference:	KB 25' @ 4672.00usft
Well:	STATE ANTELOPE 44-14-3HN	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)
8,609.00	90.82	269.23	6,308.81	-2,884.17	-2,148.24	3,279.58	0.90	0.45	-0.78
8,703.00	89.65	270.48	6,308.42	-2,884.41	-2,242.24	3,361.84	1.82	-1.24	1.33
8,797.00	88.94	269.89	6,309.58	-2,884.10	-2,336.23	3,443.82	0.98	-0.76	-0.63
8,892.00	89.82	270.76	6,310.61	-2,883.56	-2,431.22	3,526.56	1.30	0.93	0.92
8,986.00	89.17	269.85	6,311.43	-2,883.06	-2,525.21	3,608.45	1.19	-0.69	-0.97
9,081.00	89.40	270.75	6,312.62	-2,882.56	-2,620.20	3,691.22	0.98	0.24	0.95
9,176.00	89.79	271.47	6,313.29	-2,880.72	-2,715.18	3,773.32	0.86	0.41	0.76
9,271.00	89.21	266.90	6,314.12	-2,882.08	-2,810.14	3,856.95	4.85	-0.61	-4.81
9,366.00	89.01	267.09	6,315.60	-2,887.05	-2,905.00	3,942.26	0.29	-0.21	0.20
9,461.00	89.58	268.63	6,316.77	-2,890.60	-2,999.92	4,026.94	1.73	0.60	1.62
9,555.00	88.94	267.50	6,317.98	-2,893.78	-3,093.86	4,110.56	1.38	-0.68	-1.20
9,650.00	91.21	269.68	6,317.86	-2,896.11	-3,188.82	4,194.68	3.31	2.39	2.29
9,744.00	91.17	270.56	6,315.90	-2,895.92	-3,282.80	4,276.70	0.94	-0.04	0.94
9,839.00	91.98	270.34	6,313.29	-2,895.17	-3,377.76	4,359.32	0.88	0.85	-0.23
9,933.00	90.77	273.43	6,311.04	-2,892.08	-3,471.67	4,439.88	3.53	-1.29	3.29
10,028.00	88.95	274.07	6,311.27	-2,885.87	-3,566.46	4,519.69	2.03	-1.92	0.67
10,123.00	88.84	274.20	6,313.10	-2,879.02	-3,661.20	4,599.14	0.18	-0.12	0.14
10,217.00	88.50	272.20	6,315.28	-2,873.77	-3,755.02	4,678.57	2.16	-0.36	-2.13
10,311.00	89.92	272.69	6,316.58	-2,869.76	-3,848.92	4,758.68	1.60	1.51	0.52
10,406.00	87.91	269.57	6,318.38	-2,867.89	-3,943.87	4,840.73	3.91	-2.12	-3.28
10,501.00	88.48	269.89	6,321.37	-2,868.34	-4,038.82	4,923.92	0.69	0.60	0.34
10,595.00	88.03	268.00	6,324.23	-2,870.07	-4,132.76	5,006.85	2.07	-0.48	-2.01
10,690.00	88.37	268.11	6,327.22	-2,873.29	-4,227.65	5,091.34	0.38	0.36	0.12
10,784.00	90.20	268.66	6,328.39	-2,875.94	-4,321.61	5,174.72	2.03	1.95	0.59
10,878.00	90.89	268.78	6,327.50	-2,878.04	-4,415.58	5,257.86	0.75	0.73	0.13
10,973.00	88.77	267.90	6,327.78	-2,880.79	-4,510.53	5,342.17	2.42	-2.23	-0.93
11,067.00	89.14	268.36	6,329.49	-2,883.85	-4,604.46	5,425.74	0.63	0.39	0.49
11,162.00	90.33	268.63	6,329.93	-2,886.35	-4,699.43	5,509.94	1.28	1.25	0.28
11,256.00	89.77	267.38	6,329.85	-2,889.62	-4,793.37	5,593.62	1.46	-0.60	-1.33
11,351.00	89.73	265.92	6,330.26	-2,895.17	-4,888.20	5,679.19	1.54	-0.04	-1.54
11,446.00	89.62	266.21	6,330.80	-2,901.69	-4,982.98	5,765.17	0.33	-0.12	0.31
11,540.00	90.30	265.26	6,330.87	-2,908.68	-5,076.72	5,850.48	1.24	0.72	-1.01
11,635.00	91.26	265.16	6,329.57	-2,916.62	-5,171.37	5,937.05	1.02	1.01	-0.11
LAST SURVEY - 11635' MD, 6330' TVD									
11,718.00	91.26	265.16	6,327.75	-2,923.62	-5,254.06	6,012.71	0.00	0.00	0.00
EXTRAPOLATION TO TD - 11718' MD, 667' FSL, 339' FWL SEC 3									

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE ANTELOPE 44-14-3HN
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4672.00usft
Site:	SEC 2-T5N-R62W	MD Reference:	KB 25' @ 4672.00usft
Well:	STATE ANTELOPE 44-14-3HN	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 4	0.00	0.00	6,310.00	-2,848.91	-799.07	1,399,510.29	3,333,608.52	40.423870°N	104.301710°W
- actual wellpath misses target center by 33.03usft at 7262.12usft MD (6281.58 TVD, -2832.99 N, -804.54 E)									
- Point									
PBHL-STATE ANTELOP	0.00	0.00	6,345.00	-2,913.96	-5,263.00	1,399,384.78	3,329,146.05	40.423690°N	104.317743°W
- actual wellpath misses target center by 21.70usft at 11718.00usft MD (6327.75 TVD, -2923.62 N, -5254.06 E)									
- Point									

Design Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W		
		(usft)	(usft)	Comment	
6,390.00	5,797.56	-2,554.57	-217.35	KOP - 6390' MD, 5798' TVD	
7,256.56	6,280.67	-2,832.55	-799.07	~470' X-OVER PNT - 7256.56' MD, 716' FSL, 470' FEL SEC 3	
7,536.00	6,307.13	-2,846.47	-1,076.71	HZ LANDING PNT - 7536' MD, 6307' TVD	
11,635.00	6,329.57	-2,916.62	-5,171.37	LAST SURVEY - 11635' MD, 6330' TVD	
11,718.00	6,327.75	-2,923.62	-5,254.06	EXTRAPOLATION TO TD - 11718' MD, 667' FSL, 339' FWL SEC 3	

Checked By: _____	Approved By: _____	Date: _____
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